

Occupation Projections for South Central Wisconsin Workforce Development Area, 2004-2014
(Columbia, Dane, Dodge, Jefferson, Marquette, and Sauk Counties)

SOC Code	Occupational Title	Estimated Employment ⁽¹⁾				Estimated Average Annual Openings ⁽¹⁾			Typical Education and Training Path ⁽⁴⁾	Estimated Salary and Wages (2005)		
		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
00-0000	Total, All Occupations	423,430	476,650	53,220	12.6%	5,320	10,070	15,390		\$36,924	\$8.91	\$22.17
11-0000	Management Occupations	15,840	18,250	2,410	15.2%	240	300	540		\$82,812	\$21.23	\$49.10
11-1011	Chief Executives	650	750	100	15.4%	10	10	20	Bachelor's or higher degree + work experience	\$146,674	\$41.18	\$85.18
11-1021	General and Operations Managers	4,230	4,870	640	15.1%	60	80	140	Bachelor's or higher degree + work experience	\$96,173	\$24.23	\$57.24
11-1031	Legislators	680	640	-40	-5.9%	<5	10	10	Bachelor's or higher degree + work experience	\$25,596	\$5.90	\$15.51
11-2011	Advertising and Promotions Managers	130	150	20	15.4%	<5	<5	<5	Bachelor's or higher degree + work experience	\$71,552	\$21.73	\$40.73
11-2021	Marketing Managers	290	350	60	20.7%	10	10	20	Bachelor's or higher degree + work experience	\$84,360	\$26.01	\$47.83
11-2022	Sales Managers	690	830	140	20.3%	10	10	20	Bachelor's or higher degree + work experience	\$88,009	\$24.70	\$51.12
11-2031	Public Relations Managers	110	140	30	27.3%	<5	<5	<5	Bachelor's or higher degree + work experience	\$55,988	\$13.16	\$33.80
11-3011	Administrative Services Managers	530	590	60	11.3%	10	10	20	Bachelor's or higher degree + work experience	\$69,242	\$22.54	\$38.67
11-3021	Computer and Information Systems Managers	840	1,050	210	25.0%	20	20	40	Bachelor's or higher degree + work experience	\$86,876	\$30.59	\$47.36

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11-3031	Financial Managers	970	1,130	160	16.5%	20	10	30	Bachelor's or higher degree + work experience	\$97,336	\$29.64	\$55.38
11-3041	Compensation and Benefits Managers	120	140	20	16.7%	<5	<5	<5	Bachelor's or higher degree + work experience	\$77,983	\$23.07	\$44.70
11-3042	Training and Development Managers	80	100	20	25.0%	<5	<5	<5	Bachelor's or higher degree + work experience	\$72,372	\$25.76	\$39.31
11-3049	Human Resources Managers, All Other	170	190	20	11.8%	<5	<5	<5	Bachelor's or higher degree + work experience	\$78,473	\$26.10	\$43.54
11-3051	Industrial Production Managers	620	660	40	6.5%	<5	10	10	Bachelor's or higher degree + work experience	\$71,494	\$24.58	\$39.27
11-3061	Purchasing Managers	180	190	10	5.6%	<5	<5	<5	Bachelor's or higher degree + work experience	\$80,700	\$24.45	\$45.97
11-3071	Transportation, Storage, and Distribution Managers	190	220	30	15.8%	<5	<5	<5	Work experience in a related occupation	\$65,937	\$23.31	\$35.89
11-9011	Farm, Ranch, and Other Agricultural Managers	*	*	*	*	<5	<5	<5	Bachelor's or higher degree + work experience	*	*	*
11-9021	Construction Managers	380	460	80	21.1%	10	10	20	Bachelor's degree	\$82,707	\$23.13	\$48.08
11-9031	Education Administrators, Preschool and Child Care Center/Program	140	170	30	21.4%	<5	<5	<5	Bachelor's or higher degree + work experience	*	*	*
11-9032	Education Administrators, Elementary and Secondary School	640	700	60	9.4%	10	20	30	Bachelor's or higher degree + work experience	\$74,704	Not Available	Not Available

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11-9033	Education Administrators, Postsecondary	530	620	90	17.0%	10	10	20	Bachelor's or higher degree + work experience	\$78,638	\$25.02	\$44.20
11-9039	Education Administrators, All Other	80	90	10	12.5%	<5	<5	<5	Bachelor's or higher degree + work experience	\$64,555	\$24.18	\$34.46
11-9041	Engineering Managers	540	610	70	13.0%	10	10	20	Bachelor's or higher degree + work experience	\$89,422	\$33.00	\$47.98
11-9051	Food Service Managers	540	630	90	16.7%	10	10	20	Work experience in a related occupation	\$40,450	\$13.78	\$22.28
11-9061	Funeral Directors	70	80	10	14.3%	<5	<5	<5	Associate degree	\$45,274	\$14.27	\$25.52
11-9071	Gaming Managers	10	20	10	100.0%	<5	<5	<5	Work experience in a related occupation	*	*	*
11-9081	Lodging Managers	*	*	*	*	<5	<5	<5	Work experience in a related occupation	\$40,877	\$14.94	\$22.01
11-9111	Medical and Health Services Managers	630	780	150	23.8%	20	10	30	Bachelor's or higher degree + work experience	\$80,886	\$23.50	\$46.58
11-9121	Natural Sciences Managers	130	150	20	15.4%	<5	<5	<5	Bachelor's or higher degree + work experience	\$99,845	\$32.43	\$55.79
11-9131	Postmasters and Mail Superintendents	100	100	0	0.0%	<5	<5	<5	Work experience in a related occupation	\$55,620	\$21.59	\$29.32
11-9141	Property, Real Estate, and Community Association Managers	120	160	40	33.3%	<5	<5	<5	Bachelor's degree	\$77,582	\$20.95	\$45.47

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11-9151	Social and Community Service Managers	350	420	70	20.0%	10	10	20	Bachelor's degree	\$53,263	\$17.93	\$29.45
11-9199	Managers, All Other	960	1,090	130	13.5%	10	20	30	Work experience in a related occupation	\$83,744	\$27.14	\$46.82
13-0000	Business and Financial Operations Occupations	19,990	23,340	3,350	16.8%	340	350	690		\$53,429	\$16.49	\$30.28
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	*	*	*	*	<5	<5	<5	Bachelor's or higher degree + work experience	\$22,683	\$9.50	\$11.61
13-1021	Purchasing Agents and Buyers, Farm Products	50	60	10	20.0%	<5	<5	<5	Work experience in a related occupation	\$39,339	\$15.02	\$20.86
13-1022	Wholesale and Retail Buyers, Except Farm Products	340	380	40	11.8%	<5	10	10	Bachelor's degree	\$48,844	\$14.57	\$27.94
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	1,010	1,120	110	10.9%	10	30	40	Bachelor's degree	\$47,692	\$16.62	\$26.08
13-1031	Claims Adjusters, Examiners, and Investigators	1,340	1,530	190	14.2%	20	20	40	Long-term on-the-job training	\$49,633	\$15.91	\$27.84
13-1032	Insurance Appraisers, Auto Damage	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	620	700	80	12.9%	10	20	30	Long-term on-the-job training	\$52,329	\$17.64	\$28.92
13-1051	Cost Estimators	720	880	160	22.2%	20	20	40	Bachelor's degree	\$57,230	\$16.98	\$32.78

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13-1061	Emergency Management Specialists	50	50	0	0.0%	<5	<5	<5	Work experience in a related occupation	\$53,409	\$19.30	\$28.86
13-1071	Employment, Recruitment, and Placement Specialists	480	630	150	31.3%	20	10	30	Bachelor's degree	\$45,675	\$14.73	\$25.57
13-1072	Compensation, Benefits, and Job Analysis Specialists	420	490	70	16.7%	10	10	20	Bachelor's degree	\$48,145	\$16.76	\$26.34
13-1073	Training and Development Specialists	740	860	120	16.2%	10	10	20	Bachelor's degree	\$43,071	\$14.01	\$24.06
13-1079	Human Resources, Training, and Labor Relations Specialists, All Other	1,560	1,790	230	14.7%	20	30	50	Bachelor's degree	\$40,023	\$6.39	\$25.67
13-1081	Logisticians	130	150	20	15.4%	<5	<5	<5	Bachelor's degree	\$57,357	\$20.68	\$31.02
13-1111	Management Analysts	1,240	1,410	170	13.7%	20	20	40	Bachelor's or higher degree + work experience	\$57,573	\$19.87	\$31.59
13-1121	Meeting and Convention Planners	170	210	40	23.5%	<5	<5	<5	Bachelor's degree	\$41,963	\$14.46	\$23.03
13-1199	Business Operations Specialists, All Other	3,740	4,680	940	25.1%	90	60	150	Bachelor's degree	\$59,024	\$17.57	\$33.78
13-2011	Accountants and Auditors	3,320	3,840	520	15.7%	50	60	110	Bachelor's degree	\$55,890	\$19.22	\$30.69
13-2021	Appraisers and Assessors of Real Estate	270	340	70	25.9%	10	10	20	Postsecondary vocational training	\$50,681	\$17.69	\$27.70

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13-2031	Budget Analysts	180	200	20	11.1%	<5	<5	<5	Bachelor's degree	\$53,534	\$20.47	\$28.37
13-2041	Credit Analysts	150	150	0	0.0%	<5	<5	<5	Bachelor's degree	\$46,417	\$16.10	\$25.42
13-2051	Financial Analysts	380	440	60	15.8%	10	10	20	Bachelor's degree	\$65,508	\$19.31	\$37.59
13-2052	Personal Financial Advisors	*	*	*	*	10	<5	10	Bachelor's degree	\$67,752	\$22.56	\$37.58
13-2053	Insurance Underwriters	720	750	30	4.2%	<5	10	10	Bachelor's degree	\$43,806	\$14.41	\$24.38
13-2061	Financial Examiners	120	140	20	16.7%	<5	<5	<5	Bachelor's degree	\$59,890	\$21.83	\$32.28
13-2071	Loan Counselors	*	*	*	*	<5	<5	<5	Bachelor's degree	\$43,231	\$12.78	\$24.79
13-2072	Loan Officers	1,260	1,410	150	11.9%	20	20	40	Bachelor's degree	\$56,014	\$18.51	\$31.14
13-2081	Tax Examiners, Collectors, and Revenue Agents	220	210	-10	-4.5%	<5	10	10	Bachelor's degree	\$52,032	\$18.69	\$28.18
13-2082	Tax Preparers	220	240	20	9.1%	<5	<5	<5	Moderate-term on-the-job training	\$43,136	\$13.40	\$24.41
13-2099	Financial Specialists, All Other	220	260	40	18.2%	<5	<5	<5	Bachelor's degree	\$51,462	\$17.38	\$28.42

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15-0000	Computer and Mathematical Occupations	9,680	12,600	2,920	30.2%	290	130	420		\$59,253	\$17.97	\$33.75
15-1011	Computer and Information Scientists, Research	30	40	10	33.3%	<5	<5	<5	Doctoral degree	\$75,178	\$31.00	\$38.72
15-1021	Computer Programmers	1,070	1,070	0	0.0%	<5	30	30	Bachelor's degree	\$56,297	\$18.69	\$31.25
15-1031	Computer Software Engineers, Applications	1,780	2,710	930	52.2%	90	20	110	Bachelor's degree	\$76,703	\$22.54	\$44.04
15-1032	Computer Software Engineers, Systems Software	570	840	270	47.4%	30	10	40	Bachelor's degree	\$72,976	\$24.33	\$40.46
15-1041	Computer Support Specialists	1,510	1,820	310	20.5%	30	20	50	Associate degree	\$38,968	\$13.59	\$21.31
15-1051	Computer Systems Analysts	2,380	2,960	580	24.4%	60	30	90	Bachelor's degree	\$61,007	\$22.41	\$32.79
15-1061	Database Administrators	310	420	110	35.5%	10	<5	10	Bachelor's degree	\$60,530	\$20.13	\$33.59
15-1071	Network and Computer Systems Administrators	930	1,270	340	36.6%	30	10	40	Bachelor's degree	\$56,596	\$19.62	\$31.00
15-1081	Network Systems and Data Communications Analysts	540	850	310	57.4%	30	10	40	Bachelor's degree	\$58,205	\$18.67	\$32.64
15-1099	Computer Specialists, All Other	270	300	30	11.1%	<5	<5	<5	Associate degree	\$43,771	\$11.95	\$25.59

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15-2011	Actuaries	140	160	20	14.3%	<5	10	10	Bachelor's or higher degree + work experience	\$77,186	\$24.35	\$43.49
15-2021	Mathematicians	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
15-2031	Operations Research Analysts	90	90	0	0.0%	<5	<5	<5	Master's degree	\$52,698	\$18.47	\$28.77
15-2041	Statisticians	60	60	0	0.0%	<5	<5	<5	Master's degree	\$59,136	\$19.74	\$32.77
15-2091	Mathematical Technicians	*	*	*	*	<5	<5	<5	Master's degree	*	*	*
15-2099	Mathematical Science Occupations, All Other	*	*	*	*	<5	<5	<5	Master's degree	*	*	*
17-0000	Architecture and Engineering Occupations	7,810	8,760	950	12.2%	100	180	280		\$54,767	\$16.92	\$31.04
17-1011	Architects, Except Landscape and Naval	380	450	70	18.4%	10	<5	10	Bachelor's degree	\$64,804	\$18.39	\$37.54
17-1012	Landscape Architects	80	90	10	12.5%	<5	<5	<5	Bachelor's degree	\$52,630	\$19.32	\$28.29
17-1021	Cartographers and Photogrammetrists	80	80	0	0.0%	<5	<5	<5	Bachelor's degree	*	*	*
17-1022	Surveyors	220	250	30	13.6%	<5	10	10	Bachelor's degree	\$44,052	\$13.08	\$25.23

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17-2011	Aerospace Engineers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*
17-2021	Agricultural Engineers	20	20	0	0.0%	<5	<5	<5	Bachelor's degree	\$61,633	\$24.57	\$32.16
17-2031	Biomedical Engineers	*	*	*	*	<5	<5	<5	Bachelor's degree	\$79,099	\$29.41	\$42.34
17-2041	Chemical Engineers	60	70	10	16.7%	<5	<5	<5	Bachelor's degree	\$76,083	\$26.19	\$41.77
17-2051	Civil Engineers	990	1,090	100	10.1%	10	20	30	Bachelor's degree	\$61,924	\$23.19	\$33.06
17-2061	Computer Hardware Engineers	*	*	*	*	<5	<5	<5	Bachelor's degree	\$61,238	\$19.75	\$34.29
17-2071	Electrical Engineers	550	630	80	14.5%	10	10	20	Bachelor's degree	\$62,522	\$21.76	\$34.21
17-2072	Electronics Engineers, Except Computer	250	280	30	12.0%	<5	10	10	Bachelor's degree	\$63,632	\$23.72	\$34.03
17-2081	Environmental Engineers	260	330	70	26.9%	10	<5	10	Bachelor's degree	\$66,296	\$22.79	\$36.42
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	50	60	10	20.0%	<5	<5	<5	Bachelor's degree	\$59,323	\$22.56	\$31.50
17-2112	Industrial Engineers	540	640	100	18.5%	10	10	20	Bachelor's degree	\$59,929	\$22.33	\$32.05

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17-2121	Marine Engineers and Naval Architects	0	0	0	0.0%	<5	<5	<5	Bachelor's degree	*	*	*
17-2131	Materials Engineers	100	120	20	20.0%	<5	<5	<5	Bachelor's degree	\$65,336	\$26.19	\$34.02
17-2141	Mechanical Engineers	970	1,080	110	11.3%	10	30	40	Bachelor's degree	\$62,113	\$21.83	\$33.88
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*
17-2161	Nuclear Engineers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*
17-2171	Petroleum Engineers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*
17-2199	Engineers, All Other	290	330	40	13.8%	<5	10	10	Bachelor's degree	\$65,818	\$23.94	\$35.50
17-3011	Architectural and Civil Drafters	260	270	10	3.8%	<5	10	10	Postsecondary vocational training	\$41,933	\$14.81	\$22.84
17-3012	Electrical and Electronics Drafters	130	130	0	0.0%	<5	<5	<5	Postsecondary vocational training	\$43,173	\$15.74	\$23.26
17-3013	Mechanical Drafters	450	480	30	6.7%	<5	10	10	Postsecondary vocational training	\$41,662	\$14.59	\$22.75
17-3019	Drafters, All Other	*	*	*	*	<5	<5	<5	Postsecondary vocational training	\$38,440	\$13.98	\$20.73

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17-3021	Aerospace Engineering and Operations Technicians	*	*	*	*	<5	<5	<5	Associate degree	*	*	*
17-3022	Civil Engineering Technicians	550	590	40	7.3%	<5	10	10	Associate degree	\$41,902	\$14.71	\$22.86
17-3023	Electrical and Electronic Engineering Technicians	430	470	40	9.3%	<5	10	10	Associate degree	\$47,187	\$17.02	\$25.52
17-3024	Electro-Mechanical Technicians	*	*	*	*	<5	<5	<5	Associate degree	*	*	*
17-3025	Environmental Engineering Technicians	70	90	20	28.6%	<5	<5	<5	Associate degree	\$40,142	\$13.00	\$22.45
17-3026	Industrial Engineering Technicians	180	220	40	22.2%	<5	<5	<5	Associate degree	\$40,928	\$15.07	\$21.98
17-3027	Mechanical Engineering Technicians	220	250	30	13.6%	<5	10	10	Associate degree	\$39,569	\$13.32	\$21.87
17-3029	Engineering Technicians, Except Drafters, All Other	150	170	20	13.3%	<5	<5	<5	Associate degree	\$42,967	\$14.26	\$23.86
17-3031	Surveying and Mapping Technicians	230	240	10	4.3%	<5	10	10	Moderate-term on-the-job training	\$30,048	\$10.66	\$16.34
19-0000	Life, Physical, and Social Science Occupations	5,180	6,020	840	16.2%	80	130	210		\$47,403	\$15.03	\$26.67
19-1011	Animal Scientists	20	20	0	0.0%	<5	<5	<5	Bachelor's degree	\$54,174	\$18.30	\$29.92

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SOC Code	Occupational Title	Estimated Employment ⁽¹⁾				Estimated Average Annual Openings ⁽¹⁾			Typical Education and Training Path ⁽⁴⁾	Estimated Salary and Wages (2005)		
		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
19-1012	Food Scientists and Technologists	70	80	10	14.3%	<5	<5	<5	Bachelor's degree	\$46,763	\$16.96	\$25.24
19-1013	Soil and Plant Scientists	90	110	20	22.2%	<5	<5	<5	Bachelor's degree	\$45,235	\$17.30	\$23.97
19-1021	Biochemists and Biophysicists	120	140	20	16.7%	<5	<5	<5	Doctoral degree	\$50,037	\$18.14	\$27.02
19-1022	Microbiologists	100	130	30	30.0%	<5	<5	<5	Doctoral degree	\$51,576	\$18.42	\$27.98
19-1023	Zoologists and Wildlife Biologists	100	110	10	10.0%	<5	<5	<5	Doctoral degree	\$48,564	\$17.26	\$26.39
19-1029	Biological Scientists, All Other	100	120	20	20.0%	<5	<5	<5	Doctoral degree	\$45,510	\$18.29	\$23.68
19-1031	Conservation Scientists	280	290	10	3.6%	<5	10	10	Bachelor's degree	\$57,705	\$22.46	\$30.38
19-1032	Foresters	140	150	10	7.1%	<5	<5	<5	Bachelor's degree	\$48,101	\$17.62	\$25.88
19-1041	Epidemiologists	20	20	0	0.0%	<5	<5	<5	Master's degree	\$58,691	\$24.54	\$30.05
19-1042	Medical Scientists, Except Epidemiologists	320	410	90	28.1%	10	10	20	Doctoral degree	\$50,159	\$17.95	\$27.20
19-1099	Life Scientists, All Other	10	10	0	0.0%	<5	<5	<5	Bachelor's degree	\$46,852	\$17.65	\$24.96

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
19-2011	Astronomers	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
19-2012	Physicists	60	70	10	16.7%	<5	<5	<5	Doctoral degree	\$50,908	\$19.18	\$27.12
19-2021	Atmospheric and Space Scientists	40	50	10	25.0%	<5	<5	<5	Bachelor's degree	\$60,922	\$18.98	\$34.44
19-2031	Chemists	380	430	50	13.2%	10	10	20	Bachelor's degree	\$45,249	\$15.13	\$25.07
19-2032	Materials Scientists	*	*	*	*	<5	<5	<5	Bachelor's degree	\$64,759	\$17.29	\$38.06
19-2041	Environmental Scientists and Specialists, Including Health	290	320	30	10.3%	<5	10	10	Master's degree	\$48,262	\$17.48	\$26.06
19-2042	Geoscientists, Except Hydrologists and Geographers	*	*	*	*	<5	<5	<5	Master's degree	*	*	*
19-2043	Hydrologists	110	140	30	27.3%	<5	<5	<5	Master's degree	\$62,752	\$21.84	\$34.33
19-2099	Physical Scientists, All Other	90	100	10	11.1%	<5	<5	<5	Bachelor's degree	\$43,958	\$18.39	\$22.51
19-3011	Economists	60	60	0	0.0%	<5	<5	<5	Master's degree	\$64,727	\$17.89	\$37.73
19-3021	Market Research Analysts	690	850	160	23.2%	20	20	40	Master's degree	\$58,685	\$17.57	\$33.54

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19-3022	Survey Researchers	*	*	*	*	<5	<5	<5	Master's degree	\$86,820	\$28.14	\$48.54
19-3031	Clinical, Counseling, and School Psychologists	420	500	80	19.0%	10	10	20	Doctoral degree	\$55,746	\$18.15	\$31.13
19-3039	Psychologists, All Other	*	*	*	*	<5	<5	<5	Master's degree	*	*	*
19-3041	Sociologists	20	20	0	0.0%	<5	<5	<5	Master's degree	\$45,789	\$18.12	\$23.96
19-3051	Urban and Regional Planners	60	70	10	16.7%	<5	<5	<5	Master's degree	\$58,832	\$20.61	\$32.12
19-3091	Anthropologists and Archeologists	*	*	*	*	<5	<5	<5	Master's degree	*	*	*
19-3092	Geographers	*	*	*	*	<5	<5	<5	Master's degree	*	*	*
19-3093	Historians	10	10	0	0.0%	<5	<5	<5	Master's degree	\$52,385	\$18.81	\$28.37
19-3094	Political Scientists	10	10	0	0.0%	<5	<5	<5	Master's degree	\$39,058	\$15.35	\$20.49
19-3099	Social Scientists and Related Workers, All Other	140	160	20	14.3%	<5	<5	<5	Master's degree	\$50,614	\$18.10	\$27.45
19-4011	Agricultural and Food Science Technicians	110	130	20	18.2%	<5	<5	<5	Associate degree	\$32,712	\$11.64	\$17.77

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19-4021	Biological Technicians	270	300	30	11.1%	<5	10	10	Associate degree	\$31,911	\$10.92	\$17.55
19-4031	Chemical Technicians	230	250	20	8.7%	<5	10	10	Associate degree	\$37,794	\$12.40	\$21.06
19-4041	Geological and Petroleum Technicians	*	*	*	*	<5	<5	<5	Associate degree	*	*	*
19-4061	Social Science Research Assistants	110	130	20	18.2%	<5	<5	<5	Associate degree	\$31,437	\$14.37	\$15.48
19-4091	Environmental Science and Protection Technicians, Including Health	70	80	10	14.3%	<5	<5	<5	Associate degree	\$36,030	\$14.06	\$18.95
19-4092	Forensic Science Technicians	*	*	*	*	<5	<5	<5	Associate degree	\$38,264	\$14.21	\$20.49
19-4093	Forest and Conservation Technicians	130	140	10	7.7%	<5	<5	<5	Associate degree	\$34,453	\$12.73	\$18.48
19-4099	Life, Physical, and Social Science Technicians, All Other	400	470	70	17.5%	10	10	20	Associate degree	\$33,721	\$13.56	\$17.54
21-0000	Community and Social Services Occupations	8,990	10,460	1,470	16.4%	150	170	320		\$42,157	\$12.91	\$23.95
21-1011	Substance Abuse and Behavioral Disorder Counselors	220	270	50	22.7%	10	10	20	Master's degree	\$37,425	\$14.08	\$19.95
21-1012	Educational, Vocational, and School Counselors	620	720	100	16.1%	10	10	20	Master's degree	\$43,007	\$12.38	\$24.83

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21-1013	Marriage and Family Therapists	110	130	20	18.2%	<5	<5	<5	Master's degree	\$49,050	\$18.95	\$25.90
21-1014	Mental Health Counselors	240	300	60	25.0%	10	10	20	Master's degree	\$46,376	\$14.23	\$26.33
21-1015	Rehabilitation Counselors	370	430	60	16.2%	10	10	20	Master's degree	\$34,285	\$11.61	\$18.92
21-1019	Counselors, All Other	240	280	40	16.7%	<5	10	10	Master's degree	\$44,585	\$16.53	\$23.89
21-1021	Child, Family, and School Social Workers	960	1,140	180	18.8%	20	20	40	Master's degree	\$48,157	\$15.86	\$26.80
21-1022	Medical and Public Health Social Workers	270	340	70	25.9%	10	10	20	Master's degree	\$41,403	\$15.69	\$22.01
21-1023	Mental Health and Substance Abuse Social Workers	*	*	*	*	10	10	20	Master's degree	\$60,162	\$16.89	\$34.94
21-1029	Social Workers, All Other	140	150	10	7.1%	<5	<5	<5	Master's degree	\$52,355	\$17.36	\$29.08
21-1091	Health Educators	140	160	20	14.3%	<5	<5	<5	Master's degree	\$45,074	\$14.09	\$25.46
21-1092	Probation Officers and Correctional Treatment Specialists	*	*	*	*	10	10	20	Bachelor's degree	*	*	*
21-1093	Social and Human Service Assistants	1,250	1,530	280	22.4%	30	20	50	Moderate-term on-the-job training	\$31,212	\$10.44	\$17.29

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21-1099	Community and Social Service Specialists, All Other	360	460	100	27.8%	10	10	20	Bachelor's degree	\$35,959	\$12.54	\$19.66
21-2011	Clergy	2,130	2,370	240	11.3%	20	40	60	Master's degree	\$40,860	\$15.03	\$21.95
21-2021	Directors, Religious Activities and Education	*	*	*	*	10	10	20	Bachelor's degree	*	*	*
21-2099	Religious Workers, All Other	*	*	*	*	<5	10	10	Bachelor's degree	*	*	*
23-0000	Legal Occupations	2,690	3,110	420	15.6%	40	30	70		\$69,786	\$16.75	\$41.95
23-1011	Lawyers	1,620	1,930	310	19.1%	30	20	50	First professional degree	\$86,838	\$24.55	\$50.35
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	*	*	*	*	<5	<5	<5	Bachelor's or higher degree + work experience	*	*	*
23-1022	Arbitrators, Mediators, and Conciliators	80	90	10	12.5%	<5	<5	<5	Bachelor's or higher degree + work experience	\$53,445	\$14.93	\$31.08
23-1023	Judges, Magistrate Judges, and Magistrates	*	*	*	*	<5	<5	<5	Bachelor's or higher degree + work experience	\$73,993	\$7.83	\$49.45
23-2011	Paralegals and Legal Assistants	430	530	100	23.3%	10	<5	10	Associate degree	\$40,380	\$14.00	\$22.12
23-2091	Court Reporters	20	20	0	0.0%	<5	<5	<5	Postsecondary vocational training	\$47,738	\$14.83	\$27.01

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23-2092	Law Clerks	60	60	0	0.0%	<5	<5	<5	Bachelor's degree	\$40,008	\$11.91	\$22.90
23-2093	Title Examiners, Abstractors, and Searchers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$35,968	\$11.67	\$20.10
23-2099	Legal Support Workers, All Other	110	120	10	9.1%	<5	<5	<5	Bachelor's degree	\$42,801	\$15.17	\$23.28
25-0000	Education, Training, and Library Occupations	27,640	32,000	4,360	15.8%	440	590	1,030		\$44,129	\$11.95	\$25.85
25-1011	Business Teachers, Postsecondary	270	350	80	29.6%	10	10	20	Doctoral degree	\$82,764	Not Available	Not Available
25-1021	Computer Science Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1022	Mathematical Science Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1031	Architecture Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1032	Engineering Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1041	Agricultural Sciences Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1042	Biological Science Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*

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25-1043	Forestry and Conservation Science Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1052	Chemistry Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1053	Environmental Science Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1054	Physics Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1061	Anthropology and Archeology Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1063	Economics Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1064	Geography Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1065	Political Science Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1066	Psychology Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*

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25-1067	Sociology Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1069	Social Sciences Teachers, Postsecondary, All Other	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1071	Health Specialties Teachers, Postsecondary	*	*	*	*	10	10	20	Master's degree	*	*	*
25-1072	Nursing Instructors and Teachers, Postsecondary	190	240	50	26.3%	10	<5	10	Doctoral degree	\$64,237	Not Available	Not Available
25-1081	Education Teachers, Postsecondary	230	290	60	26.1%	10	10	20	Doctoral degree	\$59,414	Not Available	Not Available
25-1082	Library Science Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	30	30	0	0.0%	<5	<5	<5	Doctoral degree	*	*	*
25-1112	Law Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1113	Social Work Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1121	Art, Drama, and Music Teachers, Postsecondary	250	320	70	28.0%	10	10	20	Master's degree	\$56,967	Not Available	Not Available
25-1122	Communications Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*

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25-1123	English Language and Literature Teachers, Postsecondary	*	*	*	*	10	<5	10	Doctoral degree	*	*	*
25-1124	Foreign Language and Literature Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1125	History Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1126	Philosophy and Religion Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1191	Graduate Teaching Assistants	*	*	*	*	10	10	20	Bachelor's degree	*	*	*
25-1192	Home Economics Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Master's degree	*	*	*
25-1194	Vocational Education Teachers, Postsecondary	*	*	*	*	10	10	20	Work experience in a related occupation	\$59,092	\$16.17	\$34.53
25-1199	Postsecondary Teachers, All Other	510	650	140	27.5%	10	10	20	Doctoral degree	\$57,970	Not Available	Not Available
25-2011	Preschool Teachers, Except Special Education	1,310	1,640	330	25.2%	30	20	50	Bachelor's degree	\$24,559	\$8.50	\$13.46
25-2012	Kindergarten Teachers, Except Special Education	520	610	90	17.3%	10	10	20	Bachelor's degree	\$41,109	Not Available	Not Available

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25-2021	Elementary School Teachers, Except Special Education	4,770	5,390	620	13.0%	60	110	170	Bachelor's degree	\$43,250	Not Available	Not Available
25-2022	Middle School Teachers, Except Special and Vocational Education	2,490	2,670	180	7.2%	20	60	80	Bachelor's degree	\$44,331	Not Available	Not Available
25-2023	Vocational Education Teachers, Middle School	90	90	0	0.0%	<5	<5	<5	Bachelor's degree	\$51,729	Not Available	Not Available
25-2031	Secondary School Teachers, Except Special and Vocational Education	3,990	4,390	400	10.0%	40	110	150	Bachelor's degree	\$43,417	Not Available	Not Available
25-2032	Vocational Education Teachers, Secondary School	320	350	30	9.4%	<5	10	10	Bachelor's degree	\$47,645	Not Available	Not Available
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	540	670	130	24.1%	10	10	20	Bachelor's degree	\$43,055	Not Available	Not Available
25-2042	Special Education Teachers, Middle School	310	370	60	19.4%	10	10	20	Bachelor's degree	\$41,520	Not Available	Not Available
25-2043	Special Education Teachers, Secondary School	450	520	70	15.6%	10	10	20	Bachelor's degree	\$46,553	Not Available	Not Available
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	390	430	40	10.3%	<5	10	10	Bachelor's degree	\$48,682	\$18.54	\$25.84
25-3021	Self-Enrichment Education Teachers	630	740	110	17.5%	10	10	20	Work experience in a related occupation	\$36,361	\$10.73	\$20.86
25-3099	Teachers and Instructors, All Other	*	*	*	*	30	20	50	Bachelor's degree	*	*	*

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25-4011	Archivists	30	30	0	0.0%	<5	<5	<5	Master's degree	\$49,167	\$17.86	\$26.53
25-4012	Curators	30	40	10	33.3%	<5	<5	<5	Master's degree	\$48,739	\$16.92	\$26.69
25-4013	Museum Technicians and Conservators	*	*	*	*	<5	<5	<5	Master's degree	*	*	*
25-4021	Librarians	470	480	10	2.1%	<5	10	10	Master's degree	\$49,175	\$17.71	\$26.61
25-4031	Library Technicians	390	420	30	7.7%	<5	20	20	Postsecondary vocational training	\$24,488	\$7.70	\$13.81
25-9011	Audio-Visual Collections Specialists	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
25-9021	Farm and Home Management Advisors	130	140	10	7.7%	<5	<5	<5	Bachelor's degree	\$42,416	\$14.72	\$23.23
25-9031	Instructional Coordinators	180	230	50	27.8%	10	<5	10	Master's degree	\$51,800	\$17.68	\$28.51
25-9041	Teacher Assistants	4,020	4,640	620	15.4%	60	80	140	Associate degree	\$23,814	Not Available	Not Available
25-9099	Education, Training, and Library Workers, All Other	*	*	*	*	10	10	20	Bachelor's degree	\$28,384	\$9.07	\$15.94
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	6,060	6,970	910	15.0%	90	120	210		\$38,711	\$10.08	\$22.88

Occupation Projections for South Central Wisconsin Workforce Development Area, 2004-2014

(Columbia, Dane, Dodge, Jefferson, Marquette, and Sauk Counties)

SOC Code	Occupational Title	Estimated Employment ⁽¹⁾				Estimated Average Annual Openings ⁽¹⁾			Typical Education and Training Path ⁽⁴⁾	Estimated Salary and Wages (2005)		
		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
27-1011	Art Directors	70	80	10	14.3%	<5	<5	<5	Bachelor's or higher degree + work experience	\$58,257	\$18.80	\$32.61
27-1012	Craft Artists	30	30	0	0.0%	<5	<5	<5	Long-term on-the-job training	\$28,900	\$9.11	\$16.29
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	*	*	*	*	<5	<5	<5	Long-term on-the-job training	\$39,967	\$14.94	\$21.35
27-1014	Multi-Media Artists and Animators	60	80	20	33.3%	<5	<5	<5	Bachelor's degree	\$44,900	\$17.08	\$23.84
27-1019	Artists and Related Workers, All Other	*	*	*	*	<5	<5	<5	Long-term on-the-job training	\$30,548	\$8.40	\$17.83
27-1021	Commercial and Industrial Designers	130	140	10	7.7%	<5	<5	<5	Bachelor's degree	\$55,865	\$18.22	\$31.18
27-1023	Floral Designers	220	240	20	9.1%	<5	<5	<5	Moderate-term on-the-job training	\$22,210	\$7.73	\$12.15
27-1024	Graphic Designers	650	760	110	16.9%	10	10	20	Bachelor's degree	\$36,680	\$11.72	\$20.59
27-1025	Interior Designers	170	200	30	17.6%	<5	<5	<5	Bachelor's degree	\$42,819	\$14.43	\$23.66
27-1026	Merchandise Displayers and Window Trimmers	100	120	20	20.0%	<5	<5	<5	Moderate-term on-the-job training	\$24,178	\$8.06	\$13.41
27-1027	Set and Exhibit Designers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
27-1029	Designers, All Other	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*
27-2011	Actors	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
27-2012	Producers and Directors	110	110	0	0.0%	<5	<5	<5	Bachelor's or higher degree + work experience	\$41,226	\$13.68	\$22.89
27-2021	Athletes and Sports Competitors	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
27-2022	Coaches and Scouts	510	600	90	17.6%	10	10	20	Long-term on-the-job training	\$29,316	Not Available	Not Available
27-2023	Umpires, Referees, and Other Sports Officials	*	*	*	*	<5	10	10	Long-term on-the-job training	\$29,186	Not Available	Not Available
27-2031	Dancers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
27-2032	Choreographers	*	*	*	*	<5	10	10	Work experience in a related occupation	\$22,047	\$9.55	\$11.12
27-2041	Music Directors and Composers	*	*	*	*	<5	<5	<5	Bachelor's or higher degree + work experience	*	*	*
27-2042	Musicians and Singers	*	*	*	*	10	10	20	Long-term on-the-job training	*	*	*
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	40	50	10	25.0%	<5	<5	<5	Long-term on-the-job training	*	*	*

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
27-3011	Radio and Television Announcers	160	150	-10	-6.3%	<5	<5	<5	Long-term on-the-job training	\$28,564	\$8.30	\$16.45
27-3012	Public Address System and Other Announcers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	\$27,925	\$10.54	\$14.87
27-3021	Broadcast News Analysts	30	30	0	0.0%	<5	<5	<5	Bachelor's or higher degree + work experience	\$40,034	\$9.81	\$23.97
27-3022	Reporters and Correspondents	180	180	0	0.0%	<5	<5	<5	Bachelor's or higher degree + work experience	\$28,926	\$9.62	\$16.05
27-3031	Public Relations Specialists	800	950	150	18.8%	20	10	30	Bachelor's degree	\$49,644	\$14.62	\$28.49
27-3041	Editors	370	430	60	16.2%	10	10	20	Bachelor's degree	\$49,398	\$14.88	\$28.18
27-3042	Technical Writers	160	210	50	31.3%	10	10	20	Bachelor's degree	\$48,518	\$16.36	\$26.81
27-3043	Writers and Authors	180	220	40	22.2%	<5	<5	<5	Bachelor's degree	\$37,182	\$5.94	\$23.84
27-3091	Interpreters and Translators	100	120	20	20.0%	<5	<5	<5	Long-term on-the-job training	\$41,763	\$14.20	\$23.02
27-3099	Media and Communication Workers, All Other	40	40	0	0.0%	<5	<5	<5	Long-term on-the-job training	\$55,141	\$17.42	\$31.05
27-4011	Audio and Video Equipment Technicians	100	110	10	10.0%	<5	<5	<5	Long-term on-the-job training	\$29,631	\$9.67	\$16.53

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
27-4012	Broadcast Technicians	120	130	10	8.3%	<5	<5	<5	Postsecondary vocational training	\$31,997	\$9.57	\$18.29
27-4013	Radio Operators	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
27-4014	Sound Engineering Technicians	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	*	*
27-4021	Photographers	170	190	20	11.8%	<5	<5	<5	Bachelor's degree	\$28,069	\$9.70	\$15.39
27-4031	Camera Operators, Television, Video, and Motion Picture	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
27-4032	Film and Video Editors	10	10	0	0.0%	<5	<5	<5	Bachelor's degree	\$35,345	\$10.42	\$20.28
27-4099	Media and Communication Equipment Workers, All Other	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
29-0000	Healthcare Practitioners and Technical Occupations	20,120	25,510	5,390	26.8%	540	370	910		\$55,235	\$14.45	\$32.61
29-1011	Chiropractors	110	160	50	45.5%	10	<5	10	First professional degree	\$88,471	\$25.61	\$50.99
29-1021	Dentists, General	320	360	40	12.5%	<5	10	10	First professional degree	\$170,725	Not Available	Not Available
29-1022	Oral and Maxillofacial Surgeons	*	*	*	*	<5	<5	<5	First professional degree	\$191,472	Not Available	Not Available

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
29-1023	Orthodontists	*	*	*	*	<5	<5	<5	First professional degree	*	*	*
29-1024	Prosthodontists	0	0	0	0.0%	<5	<5	<5	First professional degree	*	*	*
29-1029	Dentists, All Other Specialists	*	*	*	*	<5	<5	<5	First professional degree	*	*	*
29-1031	Dietitians and Nutritionists	180	200	20	11.1%	<5	10	10	Bachelor's degree	\$51,125	\$19.12	\$27.31
29-1041	Optometrists	60	70	10	16.7%	<5	<5	<5	First professional degree	\$75,277	\$29.24	\$39.67
29-1051	Pharmacists	660	800	140	21.2%	10	10	20	First professional degree	\$91,250	\$33.57	\$49.02
29-1061	Anesthesiologists	50	60	10	20.0%	<5	<5	<5	First professional degree	\$143,410	\$49.96	\$78.44
29-1062	Family and General Practitioners	230	290	60	26.1%	10	<5	10	First professional degree	\$145,898	\$34.45	\$87.99
29-1063	Internists, General	*	*	*	*	10	<5	10	First professional degree	\$175,890	Not Available	Not Available
29-1064	Obstetricians and Gynecologists	*	*	*	*	<5	<5	<5	First professional degree	*	*	*
29-1065	Pediatricians, General	*	*	*	*	<5	<5	<5	First professional degree	\$154,594	\$47.77	\$87.60

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
29-1066	Psychiatrists	60	80	20	33.3%	<5	<5	<5	First professional degree	\$190,784	Not Available	Not Available
29-1067	Surgeons	*	*	*	*	<5	<5	<5	First professional degree	*	*	*
29-1069	Physicians and Surgeons, All Other	560	690	130	23.2%	10	10	20	First professional degree	\$120,520	\$38.44	\$67.70
29-1071	Physician Assistants	190	290	100	52.6%	10	<5	10	Bachelor's degree	*	*	*
29-1081	Podiatrists	20	20	0	0.0%	<5	<5	<5	First professional degree	\$115,637	\$32.39	\$67.20
29-1111	Registered Nurses	7,180	9,460	2,280	31.8%	230	150	380	Associate or Bachelor's degree ⁽⁸⁾	\$56,605	\$22.32	\$29.66
29-1121	Audiologists	90	90	0	0.0%	<5	<5	<5	Doctoral degree	\$59,897	\$21.75	\$32.32
29-1122	Occupational Therapists	410	520	110	26.8%	10	10	20	Master's degree	\$53,612	\$19.32	\$29.00
29-1123	Physical Therapists	500	650	150	30.0%	20	10	30	Master's degree	\$58,729	\$22.21	\$31.25
29-1124	Radiation Therapists	*	*	*	*	<5	<5	<5	Associate degree	\$59,253	\$21.89	\$31.78
29-1125	Recreational Therapists	80	90	10	12.5%	<5	<5	<5	Bachelor's degree	\$37,494	\$13.00	\$20.54

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
29-1126	Respiratory Therapists	210	290	80	38.1%	10	10	20	Associate degree	\$48,790	\$19.44	\$25.46
29-1127	Speech-Language Pathologists	330	370	40	12.1%	<5	10	10	Master's degree	\$48,494	\$16.05	\$26.95
29-1129	Therapists, All Other	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*
29-1131	Veterinarians	220	250	30	13.6%	<5	10	10	First professional degree	\$77,105	\$23.78	\$43.71
29-1199	Health Diagnosing and Treating Practitioners, All Other	90	110	20	22.2%	<5	<5	<5	First professional degree	\$53,194	\$18.47	\$29.12
29-2011	Medical and Clinical Laboratory Technologists	510	660	150	29.4%	20	10	30	Bachelor's degree	\$45,847	\$17.41	\$24.36
29-2012	Medical and Clinical Laboratory Technicians	300	390	90	30.0%	10	10	20	Associate degree	\$33,151	\$12.68	\$17.57
29-2021	Dental Hygienists	600	830	230	38.3%	20	10	30	Associate degree	\$55,582	\$22.85	\$28.66
29-2031	Cardiovascular Technologists and Technicians	100	130	30	30.0%	<5	<5	<5	Associate degree	\$41,528	\$12.83	\$23.53
29-2032	Diagnostic Medical Sonographers	130	170	40	30.8%	<5	<5	<5	Associate degree	\$61,058	\$23.91	\$32.08
29-2033	Nuclear Medicine Technologists	50	70	20	40.0%	<5	<5	<5	Associate degree	\$59,583	\$24.41	\$30.77

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
29-2034	Radiologic Technologists and Technicians	610	800	190	31.1%	20	10	30	Associate degree	\$47,858	\$18.55	\$25.24
29-2041	Emergency Medical Technicians and Paramedics	930	1,130	200	21.5%	20	10	30	Postsecondary vocational training	\$22,259	\$5.94	\$13.08
29-2051	Dietetic Technicians	50	70	20	40.0%	<5	<5	<5	Moderate-term on-the-job training	\$24,216	\$8.46	\$13.23
29-2052	Pharmacy Technicians	830	1,030	200	24.1%	20	10	30	Moderate-term on-the-job training	\$25,615	\$9.34	\$13.80
29-2053	Psychiatric Technicians	370	400	30	8.1%	<5	10	10	Moderate-term on-the-job training	\$32,695	\$11.89	\$17.63
29-2054	Respiratory Therapy Technicians	30	40	10	33.3%	<5	<5	<5	Associate degree	\$40,602	\$17.78	\$20.39
29-2055	Surgical Technologists	300	410	110	36.7%	10	<5	10	Postsecondary vocational training	\$38,069	\$15.17	\$19.87
29-2056	Veterinary Technologists and Technicians	220	280	60	27.3%	10	<5	10	Associate degree	\$32,796	\$11.96	\$17.67
29-2061	Licensed Practical and Licensed Vocational Nurses	1,580	1,790	210	13.3%	20	30	50	Postsecondary vocational training	\$37,813	\$15.19	\$19.67
29-2071	Medical Records and Health Information Technicians	*	*	*	*	20	10	30	Associate degree	\$30,295	\$10.15	\$16.77
29-2081	Opticians, Dispensing	250	270	20	8.0%	<5	<5	<5	Long-term on-the-job training	\$28,292	\$10.28	\$15.26

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29-2091	Orthotists and Prosthetists	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*
29-2099	Health Technologists and Technicians, All Other	300	380	80	26.7%	10	10	20	Postsecondary vocational training	\$42,132	\$14.43	\$23.17
29-9011	Occupational Health and Safety Specialists	120	140	20	16.7%	<5	<5	<5	Bachelor's degree	\$50,692	\$17.54	\$27.79
29-9012	Occupational Health and Safety Technicians	10	20	10	100.0%	<5	<5	<5	Postsecondary vocational training	\$44,517	\$16.47	\$23.87
29-9091	Athletic Trainers	60	80	20	33.3%	<5	<5	<5	Bachelor's degree	\$43,009	Not Available	Not Available
29-9099	Healthcare Practitioners and Technical Workers, All Other	150	200	50	33.3%	10	<5	10	Postsecondary vocational training	\$32,820	\$12.37	\$17.48
31-0000	Healthcare Support Occupations	11,720	15,130	3,410	29.1%	340	180	520		\$25,556	\$9.40	\$13.73
31-1011	Home Health Aides	2,230	3,420	1,190	53.4%	120	30	150	Short-term on-the-job training	\$21,108	\$8.90	\$10.77
31-1012	Nursing Aides, Orderlies, and Attendants	5,450	6,400	950	17.4%	100	70	170	Postsecondary vocational training	\$25,120	\$9.80	\$13.21
31-1013	Psychiatric Aides	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
31-2011	Occupational Therapist Assistants	110	140	30	27.3%	<5	<5	<5	Associate degree	\$40,766	\$14.56	\$22.12

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31-2012	Occupational Therapist Aides	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
31-2021	Physical Therapist Assistants	190	250	60	31.6%	10	<5	10	Associate degree	\$37,975	\$14.07	\$20.35
31-2022	Physical Therapist Aides	90	120	30	33.3%	<5	<5	<5	Short-term on-the-job training	\$25,060	\$9.14	\$13.50
31-9011	Massage Therapists	100	120	20	20.0%	<5	<5	<5	Postsecondary vocational training	\$28,721	\$9.50	\$15.96
31-9091	Dental Assistants	710	970	260	36.6%	30	20	50	Moderate-term on-the-job training	\$29,438	\$10.89	\$15.78
31-9092	Medical Assistants	890	1,290	400	44.9%	40	20	60	Moderate-term on-the-job training	\$28,145	\$10.91	\$14.84
31-9093	Medical Equipment Preparers	120	150	30	25.0%	<5	<5	<5	Short-term on-the-job training	\$26,315	\$9.09	\$14.43
31-9094	Medical Transcriptionists	600	770	170	28.3%	20	10	30	Postsecondary vocational training	\$30,207	\$11.73	\$15.92
31-9095	Pharmacy Aides	*	*	*	*	<5	<5	<5	Short-term on-the-job training	\$22,006	\$7.84	\$11.95
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	170	190	20	11.8%	<5	<5	<5	Short-term on-the-job training	\$22,070	\$7.81	\$12.01
31-9099	Healthcare Support Workers, All Other	860	1,060	200	23.3%	20	20	40	Short-term on-the-job training	\$29,248	\$11.18	\$15.50

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33-0000	Protective Service Occupations	8,570	9,030	460	5.4%	50	240	290		\$34,717	\$8.92	\$20.58
33-1011	First-Line Supervisors/Managers of Correctional Officers	330	330	0	0.0%	<5	10	10	Work experience in a related occupation	\$52,727	\$20.96	\$27.55
33-1012	First-Line Supervisors/Managers of Police and Detectives	190	210	20	10.5%	<5	10	10	Work experience in a related occupation	\$64,141	\$24.26	\$34.12
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	*	*	*	*	<5	<5	<5	Work experience in a related occupation	\$63,809	\$21.56	\$35.24
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Other	*	*	*	*	<5	<5	<5	Work experience in a related occupation	\$50,839	\$16.39	\$28.47
33-2011	Fire Fighters	900	1,030	130	14.4%	10	30	40	Long-term on-the-job training	\$30,656	\$9.16	\$17.53
33-2021	Fire Inspectors and Investigators	*	*	*	*	<5	<5	<5	Work experience in a related occupation	*	*	*
33-3011	Bailiffs	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
33-3012	Correctional Officers and Jailers	2,670	2,610	-60	-2.2%	<5	60	60	Moderate-term on-the-job training	\$35,799	\$14.60	\$18.52
33-3021	Detectives and Criminal Investigators	270	290	20	7.4%	<5	10	10	Work experience in a related occupation	\$54,299	\$20.20	\$29.06
33-3031	Fish and Game Wardens	*	*	*	*	<5	<5	<5	Associate degree	\$43,597	\$18.11	\$22.38

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(Columbia, Dane, Dodge, Jefferson, Marquette, and Sauk Counties)

SOC Code	Occupational Title	Estimated Employment ⁽¹⁾				Estimated Average Annual Openings ⁽¹⁾			Typical Education and Training Path ⁽⁴⁾	Estimated Salary and Wages (2005)		
		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
33-3041	Parking Enforcement Workers	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
33-3051	Police and Sheriff's Patrol Officers	1,480	1,590	110	7.4%	10	40	50	Long-term on-the-job training	\$45,075	\$17.28	\$23.87
33-3052	Transit and Railroad Police	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
33-9011	Animal Control Workers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
33-9021	Private Detectives and Investigators	40	50	10	25.0%	<5	<5	<5	Work experience in a related occupation	\$31,692	\$11.87	\$16.92
33-9031	Gaming Surveillance Officers and Gaming Investigators	40	40	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
33-9032	Security Guards	1,490	1,590	100	6.7%	10	30	40	Short-term on-the-job training	\$19,702	\$6.41	\$11.00
33-9091	Crossing Guards	200	230	30	15.0%	<5	10	10	Short-term on-the-job training	\$20,999	\$7.33	\$11.48
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	*	*	*	*	10	20	30	Short-term on-the-job training	\$17,543	\$7.22	\$9.04
33-9099	Protective Service Workers, All Other	300	310	10	3.3%	<5	20	20	Short-term on-the-job training	\$34,639	\$10.73	\$19.62
35-0000	Food Preparation and Serving Related Occupations	36,190	41,330	5,140	14.2%	510	1,440	1,950		\$18,098	\$6.09	\$10.01

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
35-1011	Chefs and Head Cooks	540	630	90	16.7%	10	20	30	Postsecondary vocational training	\$30,443	\$9.94	\$16.98
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	2,330	2,700	370	15.9%	40	60	100	Work experience in a related occupation	\$29,935	\$10.40	\$16.39
35-2011	Cooks, Fast Food	1,560	1,790	230	14.7%	20	50	70	Short-term on-the-job training	\$16,384	\$6.89	\$8.37
35-2012	Cooks, Institution and Cafeteria	1,320	1,360	40	3.0%	<5	40	40	Long-term on-the-job training	\$23,566	\$9.05	\$12.47
35-2013	Cooks, Private Household	20	20	0	0.0%	<5	<5	<5	Long-term on-the-job training	*	*	*
35-2014	Cooks, Restaurant	2,150	2,480	330	15.3%	30	70	100	Long-term on-the-job training	\$19,815	\$7.29	\$10.65
35-2015	Cooks, Short Order	800	860	60	7.5%	10	30	40	Short-term on-the-job training	\$20,307	\$7.51	\$10.89
35-2019	Cooks, All Other	10	20	10	100.0%	<5	<5	<5	Long-term on-the-job training	\$21,987	\$8.23	\$11.74
35-2021	Food Preparation Workers	2,350	2,760	410	17.4%	40	80	120	Short-term on-the-job training	\$18,303	\$7.02	\$9.69
35-3011	Bartenders	3,610	4,030	420	11.6%	40	140	180	Short-term on-the-job training	\$16,823	\$6.20	\$9.03
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	7,700	8,910	1,210	15.7%	120	330	450	Short-term on-the-job training	\$15,982	\$5.96	\$8.55

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35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	910	1,050	140	15.4%	10	60	70	Short-term on-the-job training	\$16,141	\$6.44	\$8.42
35-3031	Waiters and Waitresses	7,700	8,840	1,140	14.8%	110	400	510	Short-term on-the-job training	\$16,841	\$5.92	\$9.19
35-3041	Food Servers, Nonrestaurant	600	630	30	5.0%	<5	20	20	Short-term on-the-job training	\$20,420	\$7.68	\$10.89
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	1,370	1,550	180	13.1%	20	50	70	Short-term on-the-job training	\$14,808	\$5.90	\$7.73
35-9021	Dishwashers	2,060	2,370	310	15.0%	30	70	100	Short-term on-the-job training	\$15,902	\$5.94	\$8.50
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	940	1,090	150	16.0%	20	30	50	Short-term on-the-job training	\$16,891	\$6.04	\$9.16
35-9099	Food Preparation and Serving Related Workers, All Other	230	260	30	13.0%	<5	10	10	Short-term on-the-job training	\$22,285	\$7.64	\$12.25
37-0000	Building and Grounds Cleaning and Maintenance Occupations	15,970	18,610	2,640	16.5%	260	320	580		\$23,844	\$7.65	\$13.37
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	650	770	120	18.5%	10	20	30	Work experience in a related occupation	\$35,416	\$10.76	\$20.16
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers	300	350	50	16.7%	10	<5	10	Work experience in a related occupation	\$47,945	\$15.67	\$26.74
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	8,070	9,440	1,370	17.0%	140	150	290	Short-term on-the-job training	\$22,430	\$7.64	\$12.36

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
37-2012	Maids and Housekeeping Cleaners	4,240	4,830	590	13.9%	60	90	150	Short-term on-the-job training	\$18,099	\$7.10	\$9.50
37-2019	Building Cleaning Workers, All Other	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
37-2021	Pest Control Workers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
37-3011	Landscaping and Groundskeeping Workers	2,490	2,960	470	18.9%	50	50	100	Short-term on-the-job training	\$25,252	\$8.80	\$13.81
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$29,526	\$10.86	\$15.86
37-3013	Tree Trimmers and Pruners	60	70	10	16.7%	<5	<5	<5	Short-term on-the-job training	\$32,458	\$11.02	\$17.90
37-3019	Grounds Maintenance Workers, All Other	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
39-0000	Personal Care and Service Occupations	11,990	14,550	2,560	21.4%	260	270	530		\$22,120	\$7.26	\$12.32
39-1011	Gaming Supervisors	*	*	*	*	<5	<5	<5	Work experience in a related occupation	*	*	*
39-1012	Slot Key Persons	50	60	10	20.0%	<5	<5	<5	Postsecondary vocational training	*	*	*
39-1021	First-Line Supervisors/Managers of Personal Service Workers	460	570	110	23.9%	10	10	20	Work experience in a related occupation	\$31,820	\$10.88	\$17.51

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39-2011	Animal Trainers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
39-2021	Nonfarm Animal Caretakers	*	*	*	*	10	10	20	Short-term on-the-job training	\$20,238	\$6.76	\$11.21
39-3011	Gaming Dealers	110	140	30	27.3%	<5	<5	<5	Postsecondary vocational training	*	*	*
39-3012	Gaming and Sports Book Writers and Runners	20	20	0	0.0%	<5	<5	<5	Short-term on-the-job training	*	*	*
39-3019	Gaming Service Workers, All Other	30	40	10	33.3%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
39-3021	Motion Picture Projectionists	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
39-3031	Ushers, Lobby Attendants, and Ticket Takers	190	200	10	5.3%	<5	10	10	Short-term on-the-job training	\$16,160	\$6.57	\$8.37
39-3091	Amusement and Recreation Attendants	1,280	1,450	170	13.3%	20	40	60	Short-term on-the-job training	\$18,862	\$7.09	\$10.06
39-3092	Costume Attendants	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	60	70	10	16.7%	<5	<5	<5	Short-term on-the-job training	\$19,631	\$7.00	\$10.66
39-3099	Entertainment Attendants and Related Workers, All Other	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*

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39-4011	Embalmers	10	20	10	100.0%	<5	<5	<5	Postsecondary vocational training	*	*	*
39-4021	Funeral Attendants	60	70	10	16.7%	<5	<5	<5	Short-term on-the-job training	\$26,412	\$9.94	\$14.08
39-5011	Barbers	10	10	0	0.0%	<5	<5	<5	Postsecondary vocational training	*	*	*
39-5012	Hairdressers, Hairstylists, and Cosmetologists	1,570	1,770	200	12.7%	20	30	50	Postsecondary vocational training	\$25,851	\$6.60	\$15.34
39-5092	Manicurists and Pedicurists	*	*	*	*	<5	<5	<5	Postsecondary vocational training	\$16,429	\$6.57	\$8.56
39-5093	Shampooers	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
39-5094	Skin Care Specialists	40	50	10	25.0%	<5	<5	<5	Postsecondary vocational training	\$28,003	\$9.90	\$15.25
39-6011	Baggage Porters and Bellhops	60	70	10	16.7%	<5	<5	<5	Short-term on-the-job training	\$18,092	\$6.44	\$9.83
39-6012	Concierges	30	30	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$19,611	\$7.89	\$10.20
39-6021	Tour Guides and Escorts	100	120	20	20.0%	<5	<5	<5	Moderate-term on-the-job training	\$22,930	\$6.25	\$13.41
39-6022	Travel Guides	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*

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39-6031	Flight Attendants	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
39-6032	Transportation Attendants, Except Flight Attendants and Baggage Porters	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
39-9011	Child Care Workers	2,240	2,630	390	17.4%	40	60	100	Short-term on-the-job training	\$18,146	\$7.21	\$9.48
39-9021	Personal and Home Care Aides	3,160	4,310	1,150	36.4%	120	50	170	Short-term on-the-job training	\$20,289	\$8.96	\$10.15
39-9031	Fitness Trainers and Aerobics Instructors	670	790	120	17.9%	10	20	30	Postsecondary vocational training	\$27,592	\$7.44	\$16.18
39-9032	Recreation Workers	940	1,080	140	14.9%	10	20	30	Bachelor's degree	\$22,851	\$6.69	\$13.13
39-9041	Residential Advisors	140	170	30	21.4%	<5	<5	<5	Moderate-term on-the-job training	\$27,874	\$10.36	\$14.92
39-9099	Personal Care and Service Workers, All Other	120	140	20	16.7%	<5	<5	<5	Short-term on-the-job training	\$23,670	\$7.57	\$13.29
41-0000	Sales and Related Occupations	37,300	40,540	3,240	8.7%	320	1,260	1,580		\$32,193	\$7.24	\$19.59
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	2,760	2,910	150	5.4%	20	50	70	Work experience in a related occupation	\$39,827	\$12.10	\$22.67
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	760	810	50	6.6%	10	10	20	Work experience in a related occupation	\$71,982	\$17.82	\$43.00

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41-2011	Cashiers	9,120	9,060	-60	-0.7%	<5	440	440	Short-term on-the-job training	\$17,079	\$6.74	\$8.94
41-2012	Gaming Change Persons and Booth Cashiers	70	70	0	0.0%	<5	<5	<5	Short-term on-the-job training	*	*	*
41-2021	Counter and Rental Clerks	1,280	1,530	250	19.5%	30	50	80	Short-term on-the-job training	\$19,614	\$6.13	\$11.08
41-2022	Parts Salespersons	530	490	-40	-7.5%	<5	20	20	Moderate-term on-the-job training	\$32,448	\$10.74	\$18.03
41-2031	Retail Salespersons	11,760	13,430	1,670	14.2%	170	430	600	Short-term on-the-job training	\$23,329	\$7.17	\$13.24
41-3011	Advertising Sales Agents	460	510	50	10.9%	10	10	20	Moderate-term on-the-job training	\$43,126	\$11.16	\$25.52
41-3021	Insurance Sales Agents	960	1,060	100	10.4%	10	20	30	Bachelor's degree	\$54,109	\$13.35	\$32.35
41-3031	Securities, Commodities, and Financial Services Sales Agents	370	430	60	16.2%	10	<5	10	Bachelor's degree	\$68,241	\$16.98	\$40.72
41-3041	Travel Agents	190	170	-20	-10.5%	<5	<5	<5	Postsecondary vocational training	\$29,228	\$9.50	\$16.33
41-3099	Sales Representatives, Services, All Other	1,050	1,230	180	17.1%	20	20	40	Moderate-term on-the-job training	\$56,647	\$13.29	\$34.21
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	1,170	1,380	210	17.9%	20	30	50	Moderate-term on-the-job training	\$62,807	\$18.10	\$36.25

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41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	4,320	4,920	600	13.9%	60	110	170	Moderate-term on-the-job training	\$54,043	\$14.13	\$31.91
41-9011	Demonstrators and Product Promoters	220	280	60	27.3%	10	10	20	Moderate-term on-the-job training	\$23,632	\$6.93	\$13.57
41-9012	Models	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
41-9021	Real Estate Brokers	110	120	10	9.1%	<5	<5	<5	Postsecondary vocational training	\$47,411	\$16.30	\$26.04
41-9022	Real Estate Sales Agents	200	220	20	10.0%	<5	<5	<5	Postsecondary vocational training	\$53,793	\$14.31	\$31.64
41-9031	Sales Engineers	220	240	20	9.1%	<5	10	10	Bachelor's degree	\$64,122	\$22.26	\$35.11
41-9041	Telemarketers	1,230	1,080	-150	-12.2%	<5	20	20	Short-term on-the-job training	\$20,160	\$7.43	\$10.82
41-9091	Door-To-Door Sales Workers, News and Street Vendors, and Related Workers	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
41-9099	Sales and Related Workers, All Other	460	540	80	17.4%	10	10	20	Moderate-term on-the-job training	\$44,481	\$10.92	\$26.62
43-0000	Office and Administrative Support Occupations	74,010	77,410	3,400	4.6%	340	1,670	2,010		\$29,446	\$9.68	\$16.40
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	3,960	4,200	240	6.1%	20	90	110	Work experience in a related occupation	\$45,035	\$15.06	\$24.95

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43-2011	Switchboard Operators, Including Answering Service	620	560	-60	-9.7%	<5	20	20	Short-term on-the-job training	\$23,801	\$9.18	\$12.57
43-2021	Telephone Operators	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
43-2099	Communications Equipment Operators, All Other	10	10	0	0.0%	<5	<5	<5	Short-term on-the-job training	\$36,254	\$14.42	\$18.93
43-3011	Bill and Account Collectors	950	1,190	240	25.3%	20	20	40	Short-term on-the-job training	\$30,491	\$10.55	\$16.71
43-3021	Billing and Posting Clerks and Machine Operators	1,550	1,570	20	1.3%	<5	30	30	Moderate-term on-the-job training	\$30,466	\$11.52	\$16.21
43-3031	Bookkeeping, Accounting, and Auditing Clerks	6,790	7,180	390	5.7%	40	130	170	Moderate-term on-the-job training	\$30,268	\$10.75	\$16.45
43-3041	Gaming Cage Workers	60	70	10	16.7%	<5	<5	<5	Short-term on-the-job training	*	*	*
43-3051	Payroll and Timekeeping Clerks	610	710	100	16.4%	10	20	30	Moderate-term on-the-job training	\$31,085	\$10.86	\$16.99
43-3061	Procurement Clerks	230	220	-10	-4.3%	<5	10	10	Short-term on-the-job training	\$32,239	\$12.09	\$17.20
43-3071	Tellers	1,890	2,130	240	12.7%	20	90	110	Short-term on-the-job training	\$21,910	\$8.53	\$11.53
43-4011	Brokerage Clerks	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$33,991	\$14.08	\$17.47

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
43-4021	Correspondence Clerks	80	70	-10	-12.5%	<5	<5	<5	Short-term on-the-job training	\$28,134	\$10.83	\$14.88
43-4031	Court, Municipal, and License Clerks	180	190	10	5.6%	<5	<5	<5	Short-term on-the-job training	\$35,969	\$12.69	\$19.59
43-4041	Credit Authorizers, Checkers, and Clerks	160	90	-70	-43.8%	<5	<5	<5	Short-term on-the-job training	\$28,408	\$10.94	\$15.02
43-4051	Customer Service Representatives	7,990	9,410	1,420	17.8%	140	120	260	Moderate-term on-the-job training	\$29,967	\$10.13	\$16.55
43-4061	Eligibility Interviewers, Government Programs	290	250	-40	-13.8%	<5	10	10	Moderate-term on-the-job training	\$38,892	\$13.28	\$21.41
43-4071	File Clerks	720	440	-280	-38.9%	<5	20	20	Short-term on-the-job training	\$23,610	\$8.91	\$12.57
43-4081	Hotel, Motel, and Resort Desk Clerks	1,010	1,170	160	15.8%	20	50	70	Short-term on-the-job training	\$20,593	\$7.63	\$11.03
43-4111	Interviewers, Except Eligibility and Loan	570	720	150	26.3%	20	20	40	Short-term on-the-job training	\$24,953	\$9.94	\$13.02
43-4121	Library Assistants, Clerical	240	260	20	8.3%	<5	10	10	Short-term on-the-job training	\$21,094	\$7.10	\$11.66
43-4131	Loan Interviewers and Clerks	720	730	10	1.4%	<5	10	10	Short-term on-the-job training	\$31,560	\$11.61	\$16.95
43-4141	New Accounts Clerks	220	230	10	4.5%	<5	10	10	Work experience in a related occupation	\$28,978	\$12.10	\$14.85

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
43-4151	Order Clerks	*	*	*	*	<5	40	40	Short-term on-the-job training	*	*	*
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	580	680	100	17.2%	10	10	20	Short-term on-the-job training	\$33,678	\$12.18	\$18.20
43-4171	Receptionists and Information Clerks	3,770	4,440	670	17.8%	70	90	160	Short-term on-the-job training	\$24,014	\$8.68	\$12.98
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	120	140	20	16.7%	<5	<5	<5	Short-term on-the-job training	\$17,399	\$7.54	\$8.78
43-4199	Information and Record Clerks, All Other	900	830	-70	-7.8%	<5	10	10	Short-term on-the-job training	\$31,611	\$10.36	\$17.62
43-5011	Cargo and Freight Agents	80	80	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$37,815	\$9.61	\$22.47
43-5021	Couriers and Messengers	350	330	-20	-5.7%	<5	10	10	Short-term on-the-job training	\$23,477	\$7.82	\$13.02
43-5031	Police, Fire, and Ambulance Dispatchers	200	210	10	5.0%	<5	<5	<5	Moderate-term on-the-job training	\$33,271	\$12.45	\$17.77
43-5032	Dispatchers, Except Police, Fire, and Ambulance	420	450	30	7.1%	<5	10	10	Moderate-term on-the-job training	\$34,960	\$10.81	\$19.81
43-5041	Meter Readers, Utilities	90	50	-40	-44.4%	<5	<5	<5	Short-term on-the-job training	\$26,373	\$8.73	\$14.65
43-5051	Postal Service Clerks	180	180	0	0.0%	<5	10	10	Short-term on-the-job training	\$46,875	\$19.06	\$24.27

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43-5052	Postal Service Mail Carriers	1,020	1,020	0	0.0%	<5	30	30	Short-term on-the-job training	\$43,228	\$15.59	\$23.38
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	560	560	0	0.0%	<5	20	20	Short-term on-the-job training	\$42,356	\$15.33	\$22.88
43-5061	Production, Planning, and Expediting Clerks	940	1,020	80	8.5%	10	20	30	Short-term on-the-job training	\$38,183	\$13.89	\$20.59
43-5071	Shipping, Receiving, and Traffic Clerks	2,300	2,400	100	4.3%	10	50	60	Short-term on-the-job training	\$27,225	\$10.25	\$14.51
43-5081	Stock Clerks and Order Fillers	4,450	4,110	-340	-7.6%	<5	170	170	Short-term on-the-job training	\$21,712	\$7.15	\$12.08
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	350	330	-20	-5.7%	<5	10	10	Short-term on-the-job training	\$27,256	\$9.90	\$14.71
43-6011	Executive Secretaries and Administrative Assistants	4,930	5,520	590	12.0%	60	90	150	Moderate-term on-the-job training	\$35,239	\$12.45	\$19.19
43-6012	Legal Secretaries	690	760	70	10.1%	10	10	20	Postsecondary vocational training	\$32,526	\$10.51	\$18.20
43-6013	Medical Secretaries	710	820	110	15.5%	10	10	20	Postsecondary vocational training	\$28,349	\$11.49	\$14.70
43-6014	Secretaries, Except Legal, Medical, and Executive	7,500	7,050	-450	-6.0%	<5	140	140	Moderate-term on-the-job training	\$28,596	\$10.82	\$15.21
43-9011	Computer Operators	360	240	-120	-33.3%	<5	10	10	Moderate-term on-the-job training	\$35,127	\$11.93	\$19.37

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
43-9021	Data Entry Keyers	1,010	990	-20	-2.0%	<5	20	20	Moderate-term on-the-job training	\$24,780	\$8.93	\$13.40
43-9022	Word Processors and Typists	420	340	-80	-19.0%	<5	10	10	Moderate-term on-the-job training	\$31,069	\$11.42	\$16.70
43-9031	Desktop Publishers	*	*	*	*	<5	<5	<5	Postsecondary vocational training	\$32,526	\$11.90	\$17.50
43-9041	Insurance Claims and Policy Processing Clerks	1,730	1,780	50	2.9%	10	30	40	Moderate-term on-the-job training	\$30,376	\$11.34	\$16.24
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	670	420	-250	-37.3%	<5	20	20	Short-term on-the-job training	\$26,541	\$9.87	\$14.21
43-9061	Office Clerks, General	7,230	7,650	420	5.8%	40	160	200	Short-term on-the-job training	\$24,506	\$8.44	\$13.45
43-9071	Office Machine Operators, Except Computer	290	220	-70	-24.1%	<5	10	10	Short-term on-the-job training	\$26,779	\$9.91	\$14.36
43-9081	Proofreaders and Copy Markers	90	90	0	0.0%	<5	<5	<5	Short-term on-the-job training	\$28,895	\$7.53	\$17.07
43-9111	Statistical Assistants	50	50	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$38,158	\$14.83	\$20.10
43-9199	Office and Administrative Support Workers, All Other	1,000	1,070	70	7.0%	10	20	30	Short-term on-the-job training	\$27,122	\$8.78	\$15.17
45-0000	Farming, Fishing, and Forestry Occupations	610	680	70	11.5%	10	20	30		\$27,718	\$8.13	\$15.92

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	*	*	*	*	<5	<5	<5	Work experience in a related occupation	\$44,204	\$18.39	\$22.68
45-2011	Agricultural Inspectors	90	100	10	11.1%	<5	<5	<5	Work experience in a related occupation	\$35,820	\$13.85	\$18.91
45-2021	Animal Breeders	20	30	10	50.0%	<5	<5	<5	Associate degree	\$38,500	\$9.13	\$23.20
45-2041	Graders and Sorters, Agricultural Products	*	*	*	*	<5	<5	<5	Work experience in a related occupation	*	*	*
45-2091	Agricultural Equipment Operators	20	30	10	50.0%	<5	<5	<5	Moderate-term on-the-job training	\$31,977	\$11.17	\$17.47
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	80	90	10	12.5%	<5	<5	<5	Short-term on-the-job training	\$20,413	\$7.31	\$11.07
45-2093	Farmworkers, Farm and Ranch Animals	140	160	20	14.3%	<5	<5	<5	Short-term on-the-job training	\$24,008	\$8.00	\$13.32
45-2099	Agricultural Workers, All Other	*	*	*	*	<5	<5	<5	Short-term on-the-job training	\$19,881	\$7.83	\$10.42
45-3011	Fishers and Related Fishing Workers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
45-4011	Forest and Conservation Workers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
45-4021	Fallers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*

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45-4022	Logging Equipment Operators	30	30	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
45-4023	Log Graders and Scalers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
45-4029	Logging Workers, All Other	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-0000	Construction and Extraction Occupations	18,090	21,280	3,190	17.6%	320	350	670		\$43,107	\$12.91	\$24.63
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	1,350	1,610	260	19.3%	30	20	50	Work experience in a related occupation	\$63,298	\$20.09	\$35.60
47-2011	Boilermakers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
47-2021	Brickmasons and Blockmasons	470	570	100	21.3%	10	10	20	Long-term on-the-job training	\$54,868	\$18.28	\$30.43
47-2022	Stonemasons	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
47-2031	Carpenters	3,680	4,400	720	19.6%	70	60	130	Long-term on-the-job training	\$40,762	\$13.53	\$22.63
47-2041	Carpet Installers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$31,012	\$10.54	\$17.10
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*

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47-2043	Floor Sanders and Finishers	30	30	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-2044	Tile and Marble Setters	90	120	30	33.3%	<5	<5	<5	Long-term on-the-job training	\$56,941	\$19.75	\$31.19
47-2051	Cement Masons and Concrete Finishers	660	820	160	24.2%	20	10	30	Moderate-term on-the-job training	\$40,012	\$15.36	\$21.18
47-2053	Terrazzo Workers and Finishers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
47-2061	Construction Laborers	2,280	2,480	200	8.8%	20	30	50	Moderate-term on-the-job training	\$32,506	\$10.85	\$18.02
47-2071	Paving, Surfacing, and Tamping Equipment Operators	160	190	30	18.8%	<5	<5	<5	Moderate-term on-the-job training	\$40,737	\$14.49	\$22.13
47-2072	Pile-Driver Operators	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-2073	Operating Engineers and Other Construction Equipment Operators	1,180	1,370	190	16.1%	20	30	50	Moderate-term on-the-job training	\$42,204	\$15.96	\$22.45
47-2081	Drywall and Ceiling Tile Installers	250	280	30	12.0%	<5	10	10	Moderate-term on-the-job training	\$37,843	\$9.77	\$22.41
47-2082	Tapers	120	140	20	16.7%	<5	<5	<5	Moderate-term on-the-job training	\$46,924	\$18.04	\$24.82
47-2111	Electricians	1,600	1,890	290	18.1%	30	30	60	Long-term on-the-job training	\$47,652	\$15.09	\$26.82

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47-2121	Glaziers	90	110	20	22.2%	<5	<5	<5	Long-term on-the-job training	\$45,743	\$14.37	\$25.80
47-2131	Insulation Workers, Floor, Ceiling, and Wall	130	140	10	7.7%	<5	<5	<5	Moderate-term on-the-job training	\$29,057	\$10.64	\$15.63
47-2132	Insulation Workers, Mechanical	70	70	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$61,894	\$16.52	\$36.38
47-2141	Painters, Construction and Maintenance	690	830	140	20.3%	10	10	20	Moderate-term on-the-job training	\$40,552	\$13.17	\$22.66
47-2142	Paperhangers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-2151	Pipelayers	120	130	10	8.3%	<5	<5	<5	Moderate-term on-the-job training	\$46,141	\$15.60	\$25.48
47-2152	Plumbers, Pipefitters, and Steamfitters	1,210	1,470	260	21.5%	30	30	60	Long-term on-the-job training	\$58,337	\$21.01	\$31.57
47-2161	Plasterers and Stucco Masons	100	110	10	10.0%	<5	<5	<5	Long-term on-the-job training	\$42,740	\$15.02	\$23.31
47-2171	Reinforcing Iron and Rebar Workers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
47-2181	Roofers	380	480	100	26.3%	10	10	20	Moderate-term on-the-job training	\$34,004	\$11.53	\$18.76
47-2211	Sheet Metal Workers	570	680	110	19.3%	10	10	20	Long-term on-the-job training	\$47,810	\$14.15	\$27.40

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47-2221	Structural Iron and Steel Workers	*	*	*	*	10	10	20	Long-term on-the-job training	\$37,762	\$12.03	\$21.22
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	*	*	*	*	<5	10	10	Short-term on-the-job training	\$29,636	\$9.75	\$16.50
47-3012	Helpers--Carpenters	*	*	*	*	10	10	20	Short-term on-the-job training	\$18,912	\$5.79	\$10.74
47-3013	Helpers--Electricians	*	*	*	*	<5	10	10	Short-term on-the-job training	\$23,858	\$9.70	\$12.35
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	*	*	*	*	<5	<5	<5	Short-term on-the-job training	\$23,072	\$7.40	\$12.94
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	110	140	30	27.3%	<5	10	10	Short-term on-the-job training	\$29,952	\$11.61	\$15.80
47-3016	Helpers--Roofers	*	*	*	*	<5	<5	<5	Short-term on-the-job training	\$24,165	\$9.41	\$12.72
47-3019	Helpers, Construction Trades, All Other	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
47-4011	Construction and Building Inspectors	250	280	30	12.0%	<5	10	10	Work experience in a related occupation	\$43,185	\$14.10	\$24.09
47-4021	Elevator Installers and Repairers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
47-4031	Fence Erectors	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*

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47-4041	Hazardous Materials Removal Workers	70	90	20	28.6%	<5	<5	<5	Moderate-term on-the-job training	\$37,680	\$14.35	\$20.00
47-4051	Highway Maintenance Workers	580	660	80	13.8%	10	10	20	Moderate-term on-the-job training	\$33,051	\$11.92	\$17.87
47-4061	Rail-Track Laying and Maintenance Equipment Operators	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	90	120	30	33.3%	<5	<5	<5	Moderate-term on-the-job training	\$24,398	\$9.17	\$13.01
47-4091	Segmental Pavers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-4099	Construction and Related Workers, All Other	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-5012	Rotary Drill Operators, Oil and Gas	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-5013	Service Unit Operators, Oil, Gas, and Mining	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-5021	Earth Drillers, Except Oil and Gas	150	170	20	13.3%	<5	<5	<5	Moderate-term on-the-job training	\$36,427	\$13.03	\$19.76
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-5041	Continuous Mining Machine Operators	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*

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47-5042	Mine Cutting and Channeling Machine Operators	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-5051	Rock Splitters, Quarry	10	10	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-5071	Roustabouts, Oil and Gas	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-5081	Helpers--Extraction Workers	10	10	0	0.0%	<5	<5	<5	Short-term on-the-job training	*	*	*
47-5099	Extraction Workers, All Other	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
49-0000	Installation, Maintenance, and Repair Occupations	14,960	16,520	1,560	10.4%	160	340	500		\$38,177	\$12.11	\$21.47
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	1,240	1,360	120	9.7%	10	30	40	Work experience in a related occupation	\$53,972	\$18.64	\$29.60
49-2011	Computer, Automated Teller, and Office Machine Repairers	330	350	20	6.1%	<5	<5	<5	Postsecondary vocational training	\$36,428	\$10.73	\$20.90
49-2021	Radio Mechanics	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	*	*
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	710	580	-130	-18.3%	<5	20	20	Postsecondary vocational training	\$50,728	\$20.96	\$26.10
49-2091	Avionics Technicians	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	*	*

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
49-2092	Electric Motor, Power Tool, and Related Repairers	50	50	0	0.0%	<5	<5	<5	Postsecondary vocational training	\$31,850	\$10.69	\$17.63
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	*	*
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	150	180	30	20.0%	<5	<5	<5	Postsecondary vocational training	\$43,045	\$16.56	\$22.76
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	30	30	0	0.0%	<5	<5	<5	Postsecondary vocational training	\$56,305	\$22.27	\$29.47
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	60	70	10	16.7%	<5	<5	<5	Postsecondary vocational training	\$25,204	\$11.59	\$12.38
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	130	140	10	7.7%	<5	<5	<5	Postsecondary vocational training	\$32,743	\$11.20	\$18.01
49-2098	Security and Fire Alarm Systems Installers	*	*	*	*	<5	<5	<5	Postsecondary vocational training	\$33,755	\$14.34	\$17.17
49-3011	Aircraft Mechanics and Service Technicians	110	120	10	9.1%	<5	<5	<5	Postsecondary vocational training	\$49,994	\$15.49	\$28.31
49-3021	Automotive Body and Related Repairers	440	470	30	6.8%	<5	10	10	Long-term on-the-job training	\$39,482	\$13.07	\$21.94
49-3022	Automotive Glass Installers and Repairers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
49-3023	Automotive Service Technicians and Mechanics	1,840	2,070	230	12.5%	20	50	70	Postsecondary vocational training	\$34,503	\$11.27	\$19.24

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49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	600	690	90	15.0%	10	20	30	Postsecondary vocational training	\$37,093	\$12.59	\$20.46
49-3041	Farm Equipment Mechanics	180	190	10	5.6%	<5	<5	<5	Postsecondary vocational training	\$31,611	\$11.82	\$16.89
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	250	270	20	8.0%	<5	10	10	Postsecondary vocational training	\$40,568	\$16.54	\$20.99
49-3043	Rail Car Repairers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
49-3051	Motorboat Mechanics	70	80	10	14.3%	<5	<5	<5	Long-term on-the-job training	\$29,164	\$10.78	\$15.64
49-3052	Motorcycle Mechanics	50	50	0	0.0%	<5	<5	<5	Long-term on-the-job training	\$28,410	\$10.63	\$15.17
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	120	130	10	8.3%	<5	<5	<5	Moderate-term on-the-job training	\$36,632	\$12.06	\$20.39
49-3091	Bicycle Repairers	60	60	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$26,027	\$9.21	\$14.16
49-3092	Recreational Vehicle Service Technicians	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
49-3093	Tire Repairers and Changers	*	*	*	*	<5	10	10	Short-term on-the-job training	\$22,802	\$8.43	\$12.23
49-9011	Mechanical Door Repairers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*

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49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$31,895	\$12.21	\$16.89
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	740	950	210	28.4%	20	10	30	Long-term on-the-job training	\$44,589	\$14.77	\$24.77
49-9031	Home Appliance Repairers	140	140	0	0.0%	<5	<5	<5	Long-term on-the-job training	\$30,738	\$12.07	\$16.13
49-9041	Industrial Machinery Mechanics	760	810	50	6.6%	10	20	30	Long-term on-the-job training	\$39,245	\$13.96	\$21.32
49-9042	Maintenance and Repair Workers, General	4,000	4,550	550	13.8%	60	80	140	Long-term on-the-job training	\$34,036	\$11.78	\$18.65
49-9043	Maintenance Workers, Machinery	260	280	20	7.7%	<5	10	10	Short-term on-the-job training	\$31,681	\$11.40	\$17.15
49-9044	Millwrights	*	*	*	*	<5	<5	<5	Long-term on-the-job training	\$47,894	\$19.88	\$24.60
49-9045	Refractory Materials Repairers, Except Brickmasons	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$44,558	\$14.27	\$25.00
49-9051	Electrical Power-Line Installers and Repairers	400	440	40	10.0%	<5	10	10	Long-term on-the-job training	\$49,296	\$17.32	\$26.89
49-9052	Telecommunications Line Installers and Repairers	*	*	*	*	<5	10	10	Long-term on-the-job training	\$36,948	\$12.48	\$20.40
49-9061	Camera and Photographic Equipment Repairers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*

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49-9062	Medical Equipment Repairers	80	100	20	25.0%	<5	<5	<5	Associate degree	\$42,124	\$14.62	\$23.07
49-9063	Musical Instrument Repairers and Tuners	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
49-9064	Watch Repairers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
49-9069	Precision Instrument and Equipment Repairers, All Other	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$36,462	\$9.54	\$21.53
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	210	210	0	0.0%	<5	10	10	Moderate-term on-the-job training	\$35,853	\$12.45	\$19.63
49-9092	Commercial Divers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
49-9093	Fabric Menders, Except Garment	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
49-9094	Locksmiths and Safe Repairers	30	30	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$32,220	\$11.33	\$17.57
49-9095	Manufactured Building and Mobile Home Installers	30	40	10	33.3%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
49-9096	Riggers	20	20	0	0.0%	<5	<5	<5	Short-term on-the-job training	*	*	*
49-9098	Helpers--Installation, Maintenance, and Repair Workers	370	430	60	16.2%	10	10	20	Short-term on-the-job training	\$23,116	\$7.04	\$13.15

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49-9099	Installation, Maintenance, and Repair Workers, All Other	380	430	50	13.2%	10	10	20	Moderate-term on-the-job training	\$33,655	\$10.99	\$18.78
51-0000	Production Occupations	42,400	44,040	1,640	3.9%	160	1,020	1,180		\$30,608	\$10.00	\$17.07
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	2,700	2,870	170	6.3%	20	60	80	Work experience in a related occupation	\$48,214	\$16.30	\$26.62
51-2021	Coil Winders, Tapers, and Finishers	*	*	*	*	<5	<5	<5	Short-term on-the-job training	\$23,062	\$9.10	\$12.08
51-2022	Electrical and Electronic Equipment Assemblers	620	590	-30	-4.8%	<5	20	20	Short-term on-the-job training	\$27,025	\$10.52	\$14.23
51-2023	Electromechanical Equipment Assemblers	180	160	-20	-11.1%	<5	<5	<5	Short-term on-the-job training	\$30,660	\$8.30	\$17.96
51-2031	Engine and Other Machine Assemblers	190	190	0	0.0%	<5	10	10	Short-term on-the-job training	\$25,481	\$8.67	\$14.04
51-2041	Structural Metal Fabricators and Fitters	460	490	30	6.5%	<5	10	10	Moderate-term on-the-job training	\$35,544	\$14.51	\$18.38
51-2091	Fiberglass Laminators and Fabricators	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$25,593	\$9.36	\$13.78
51-2092	Team Assemblers	5,700	6,190	490	8.6%	50	150	200	Moderate-term on-the-job training	\$25,704	\$9.06	\$14.01
51-2099	Assemblers and Fabricators, All Other	860	870	10	1.2%	<5	20	20	Moderate-term on-the-job training	\$26,463	\$9.79	\$14.19

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51-3011	Bakers	530	600	70	13.2%	10	10	20	Long-term on-the-job training	\$23,035	\$8.25	\$12.49
51-3021	Butchers and Meat Cutters	620	650	30	4.8%	<5	10	10	Long-term on-the-job training	\$26,922	\$9.78	\$14.52
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	250	300	50	20.0%	10	10	20	Short-term on-the-job training	\$23,446	\$8.52	\$12.65
51-3023	Slaughterers and Meat Packers	*	*	*	*	20	30	50	Moderate-term on-the-job training	\$20,317	\$8.23	\$10.54
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	100	110	10	10.0%	<5	<5	<5	Short-term on-the-job training	\$38,034	\$16.25	\$19.30
51-3092	Food Batchmakers	580	600	20	3.4%	<5	10	10	Short-term on-the-job training	\$23,642	\$6.71	\$13.70
51-3093	Food Cooking Machine Operators and Tenders	190	200	10	5.3%	<5	<5	<5	Short-term on-the-job training	\$25,370	\$10.36	\$13.12
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	690	720	30	4.3%	<5	10	10	Moderate-term on-the-job training	\$31,983	\$11.44	\$17.35
51-4012	Numerical Tool and Process Control Programmers	70	70	0	0.0%	<5	<5	<5	Long-term on-the-job training	\$40,721	\$16.74	\$21.00
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	300	270	-30	-10.0%	<5	10	10	Moderate-term on-the-job training	\$26,673	\$10.40	\$14.03
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	260	280	20	7.7%	<5	<5	<5	Moderate-term on-the-job training	*	*	*

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51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	70	70	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$30,593	\$12.27	\$15.93
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	1,440	1,230	-210	-14.6%	<5	30	30	Moderate-term on-the-job training	\$30,772	\$10.44	\$16.97
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	220	220	0	0.0%	<5	10	10	Moderate-term on-the-job training	\$29,574	\$10.73	\$15.96
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	550	520	-30	-5.5%	<5	10	10	Moderate-term on-the-job training	\$30,240	\$11.10	\$16.26
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	290	270	-20	-6.9%	<5	10	10	Moderate-term on-the-job training	\$30,227	\$10.98	\$16.31
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	110	110	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$30,237	\$10.24	\$16.69
51-4041	Machinists	1,360	1,490	130	9.6%	10	30	40	Long-term on-the-job training	\$34,448	\$12.05	\$18.82
51-4051	Metal-Refining Furnace Operators and Tenders	60	60	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$26,473	\$10.35	\$13.92
51-4052	Pourers and Casters, Metal	100	100	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$28,611	\$11.06	\$15.10
51-4061	Model Makers, Metal and Plastic	50	40	-10	-20.0%	<5	<5	<5	Moderate-term on-the-job training	\$41,416	\$16.62	\$21.56
51-4062	Patternmakers, Metal and Plastic	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$29,789	\$12.31	\$15.33

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51-4071	Foundry Mold and Coremakers	150	150	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$28,096	\$9.96	\$15.28
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	1,180	1,150	-30	-2.5%	<5	30	30	Moderate-term on-the-job training	\$25,893	\$10.09	\$13.63
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	470	500	30	6.4%	<5	10	10	Moderate-term on-the-job training	\$29,167	\$10.62	\$15.72
51-4111	Tool and Die Makers	450	460	10	2.2%	<5	10	10	Long-term on-the-job training	\$40,788	\$15.76	\$21.54
51-4121	Welders, Cutters, Solderers, and Brazers	1,400	1,480	80	5.7%	10	40	50	Postsecondary vocational training	\$33,918	\$13.27	\$17.83
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	270	270	0	0.0%	<5	10	10	Moderate-term on-the-job training	\$30,730	\$11.38	\$16.47
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	90	90	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$26,657	\$11.65	\$13.40
51-4192	Lay-Out Workers, Metal and Plastic	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	90	90	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$29,910	\$10.54	\$16.30
51-4194	Tool Grinders, Filers, and Sharpeners	70	70	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$33,516	\$12.74	\$17.80
51-4199	Metal Workers and Plastic Workers, All Other	190	160	-30	-15.8%	<5	<5	<5	Moderate-term on-the-job training	\$32,473	\$11.90	\$17.47

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51-5011	Bindery Workers	890	930	40	4.5%	<5	20	20	Moderate-term on-the-job training	\$28,944	\$9.31	\$16.22
51-5012	Bookbinders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
51-5021	Job Printers	330	360	30	9.1%	<5	10	10	Long-term on-the-job training	\$29,726	\$11.19	\$15.84
51-5022	Prepress Technicians and Workers	470	440	-30	-6.4%	<5	10	10	Postsecondary vocational training	\$39,705	\$14.02	\$21.62
51-5023	Printing Machine Operators	1,190	1,260	70	5.9%	10	30	40	Moderate-term on-the-job training	\$38,932	\$13.88	\$21.14
51-6011	Laundry and Dry-Cleaning Workers	650	700	50	7.7%	10	20	30	Moderate-term on-the-job training	\$20,401	\$7.64	\$10.89
51-6021	Pressers, Textile, Garment, and Related Materials	160	170	10	6.3%	<5	<5	<5	Short-term on-the-job training	\$21,654	\$8.64	\$11.29
51-6031	Sewing Machine Operators	550	620	70	12.7%	10	10	20	Moderate-term on-the-job training	\$25,103	\$9.67	\$13.27
51-6041	Shoe and Leather Workers and Repairers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
51-6042	Shoe Machine Operators and Tenders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
51-6051	Sewers, Hand	10	10	0	0.0%	<5	<5	<5	Short-term on-the-job training	*	*	*

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51-6052	Tailors, Dressmakers, and Custom Sewers	120	130	10	8.3%	<5	<5	<5	Work experience in a related occupation	\$22,853	\$7.01	\$12.98
51-6061	Textile Bleaching and Dyeing Machine Operators and Tenders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	70	90	20	28.6%	<5	<5	<5	Moderate-term on-the-job training	\$22,336	\$9.08	\$11.57
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
51-6064	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
51-6092	Fabric and Apparel Patternmakers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
51-6093	Upholsterers	50	50	0	0.0%	<5	<5	<5	Long-term on-the-job training	\$34,432	\$12.32	\$18.67
51-6099	Textile, Apparel, and Furnishings Workers, All Other	*	*	*	*	<5	<5	<5	Short-term on-the-job training	\$31,497	\$11.75	\$16.84
51-7011	Cabinetmakers and Bench Carpenters	350	340	-10	-2.9%	<5	10	10	Long-term on-the-job training	\$33,336	\$12.85	\$17.61
51-7021	Furniture Finishers	50	40	-10	-20.0%	<5	<5	<5	Long-term on-the-job training	\$24,107	\$8.42	\$13.17

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
51-7031	Model Makers, Wood	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
51-7032	Patternmakers, Wood	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	130	120	-10	-7.7%	<5	<5	<5	Moderate-term on-the-job training	\$24,577	\$9.83	\$12.81
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	300	270	-30	-10.0%	<5	10	10	Moderate-term on-the-job training	\$27,361	\$10.22	\$14.62
51-7099	Woodworkers, All Other	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
51-8011	Nuclear Power Reactor Operators	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
51-8012	Power Distributors and Dispatchers	20	20	0	0.0%	<5	<5	<5	Long-term on-the-job training	\$65,783	\$23.73	\$35.57
51-8013	Power Plant Operators	170	170	0	0.0%	<5	10	10	Long-term on-the-job training	\$40,861	\$15.98	\$21.48
51-8021	Stationary Engineers and Boiler Operators	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
51-8031	Water and Liquid Waste Treatment Plant and System Operators	240	250	10	4.2%	<5	10	10	Long-term on-the-job training	\$38,709	\$16.19	\$19.82
51-8091	Chemical Plant and System Operators	100	120	20	20.0%	<5	<5	<5	Long-term on-the-job training	\$38,954	\$14.96	\$20.61

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
51-8092	Gas Plant Operators	10	10	0	0.0%	<5	<5	<5	Long-term on-the-job training	*	*	*
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
51-8099	Plant and System Operators, All Other	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
51-9011	Chemical Equipment Operators and Tenders	110	130	20	18.2%	<5	<5	<5	Moderate-term on-the-job training	\$32,569	\$13.28	\$16.85
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	250	270	20	8.0%	<5	10	10	Moderate-term on-the-job training	\$28,883	\$9.46	\$16.10
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	210	210	0	0.0%	<5	10	10	Moderate-term on-the-job training	\$31,782	\$10.68	\$17.58
51-9022	Grinding and Polishing Workers, Hand	160	150	-10	-6.3%	<5	<5	<5	Moderate-term on-the-job training	\$27,175	\$10.57	\$14.31
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	520	550	30	5.8%	<5	10	10	Moderate-term on-the-job training	\$30,544	\$11.52	\$16.27
51-9031	Cutters and Trimmers, Hand	100	100	0	0.0%	<5	<5	<5	Short-term on-the-job training	\$30,621	\$12.12	\$16.02
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	610	600	-10	-1.6%	<5	10	10	Moderate-term on-the-job training	\$32,189	\$11.23	\$17.60
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	*	*	*	*	<5	10	10	Moderate-term on-the-job training	*	*	*

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	70	70	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$26,019	\$9.71	\$13.91
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	2,540	2,810	270	10.6%	30	60	90	Moderate-term on-the-job training	\$31,854	\$11.25	\$17.35
51-9071	Jewelers and Precious Stone and Metal Workers	*	*	*	*	<5	<5	<5	Postsecondary vocational training	\$32,690	\$12.63	\$17.26
51-9081	Dental Laboratory Technicians	160	170	10	6.3%	<5	<5	<5	Long-term on-the-job training	\$38,041	\$11.99	\$21.44
51-9082	Medical Appliance Technicians	20	30	10	50.0%	<5	<5	<5	Long-term on-the-job training	*	*	*
51-9083	Ophthalmic Laboratory Technicians	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$21,357	\$9.55	\$10.63
51-9111	Packaging and Filling Machine Operators and Tenders	2,060	2,040	-20	-1.0%	<5	40	40	Short-term on-the-job training	\$26,741	\$10.28	\$14.14
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	500	490	-10	-2.0%	<5	10	10	Moderate-term on-the-job training	\$30,893	\$11.42	\$16.57
51-9122	Painters, Transportation Equipment	160	180	20	12.5%	<5	<5	<5	Long-term on-the-job training	\$51,195	\$12.38	\$30.73
51-9123	Painting, Coating, and Decorating Workers	*	*	*	*	<5	<5	<5	Short-term on-the-job training	\$23,909	\$8.57	\$12.96
51-9131	Photographic Process Workers	100	80	-20	-20.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
51-9132	Photographic Processing Machine Operators	180	120	-60	-33.3%	<5	<5	<5	Short-term on-the-job training	\$21,407	\$7.92	\$11.48
51-9141	Semiconductor Processors	*	*	*	*	<5	<5	<5	Associate degree	*	*	*
51-9191	Cementing and Gluing Machine Operators and Tenders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
51-9193	Cooling and Freezing Equipment Operators and Tenders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
51-9194	Etchers and Engravers	30	30	0	0.0%	<5	<5	<5	Long-term on-the-job training	*	*	*
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	120	110	-10	-8.3%	<5	<5	<5	Moderate-term on-the-job training	\$29,714	\$10.85	\$16.00
51-9196	Paper Goods Machine Setters, Operators, and Tenders	300	320	20	6.7%	<5	10	10	Moderate-term on-the-job training	\$29,018	\$10.92	\$15.46
51-9197	Tire Builders	10	10	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
51-9198	Helpers--Production Workers	1,880	2,060	180	9.6%	20	50	70	Short-term on-the-job training	\$23,416	\$8.59	\$12.59
51-9199	Production Workers, All Other	1,000	1,000	0	0.0%	<5	20	20	Moderate-term on-the-job training	\$30,807	\$10.33	\$17.05

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
53-0000	Transportation and Material Moving Occupations	27,620	30,500	2,880	10.4%	290	610	900		\$28,117	\$8.53	\$16.01
53-1011	Aircraft Cargo Handling Supervisors	*	*	*	*	<5	<5	<5	Work experience in a related occupation	\$38,159	\$12.49	\$21.27
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand	530	570	40	7.5%	<5	10	10	Work experience in a related occupation	\$45,064	\$14.63	\$25.18
53-1031	First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Vehicle Operators	570	660	90	15.8%	10	10	20	Work experience in a related occupation	\$56,992	\$17.46	\$32.37
53-2011	Airline Pilots, Copilots, and Flight Engineers	*	*	*	*	<5	<5	<5	Bachelor's degree	\$69,946	Not Available	Not Available
53-2012	Commercial Pilots	*	*	*	*	<5	<5	<5	Postsecondary vocational training	\$78,583	Not Available	Not Available
53-2021	Air Traffic Controllers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*
53-2022	Airfield Operations Specialists	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$24,231	\$10.73	\$12.11
53-3021	Bus Drivers, Transit and Intercity	*	*	*	*	10	10	20	Moderate-term on-the-job training	*	*	*
53-3022	Bus Drivers, School	1,080	1,280	200	18.5%	20	20	40	Short-term on-the-job training	\$24,962	\$8.17	\$13.91

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
53-3031	Driver/Sales Workers	990	1,120	130	13.1%	10	20	30	Short-term on-the-job training	\$23,838	\$7.35	\$13.52
53-3032	Truck Drivers, Heavy and Tractor-Trailer	4,860	5,540	680	14.0%	70	80	150	Moderate-term on-the-job training	\$36,391	\$12.52	\$19.98
53-3033	Truck Drivers, Light or Delivery Services	3,110	3,560	450	14.5%	50	30	80	Short-term on-the-job training	\$27,280	\$8.90	\$15.22
53-3041	Taxi Drivers and Chauffeurs	650	810	160	24.6%	20	10	30	Short-term on-the-job training	\$19,762	\$7.26	\$10.62
53-3099	Motor Vehicle Operators, All Other	170	200	30	17.6%	<5	<5	<5	Short-term on-the-job training	\$19,250	\$6.23	\$10.77
53-4099	Rail Transportation Workers, All Other	0	0	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
53-5011	Sailors and Marine Oilers	30	30	0	0.0%	<5	<5	<5	Short-term on-the-job training	*	*	*
53-5021	Captains, Mates, and Pilots of Water Vessels	20	20	0	0.0%	<5	<5	<5	Work experience in a related occupation	*	*	*
53-5031	Ship Engineers	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	*	*
53-6011	Bridge and Lock Tenders	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
53-6021	Parking Lot Attendants	170	140	-30	-17.6%	<5	10	10	Short-term on-the-job training	\$19,207	\$7.17	\$10.26

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53-6031	Service Station Attendants	130	150	20	15.4%	<5	10	10	Short-term on-the-job training	\$22,219	\$8.67	\$11.69
53-6041	Traffic Technicians	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
53-6051	Transportation Inspectors	*	*	*	*	<5	<5	<5	Work experience in a related occupation	*	*	*
53-6099	Transportation Workers, All Other	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
53-7011	Conveyor Operators and Tenders	110	110	0	0.0%	<5	<5	<5	Short-term on-the-job training	\$31,815	\$10.68	\$17.60
53-7021	Crane and Tower Operators	60	70	10	16.7%	<5	<5	<5	Long-term on-the-job training	\$39,385	\$10.00	\$23.41
53-7031	Dredge Operators	0	0	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
53-7032	Excavating and Loading Machine and Dragline Operators	100	120	20	20.0%	<5	<5	<5	Moderate-term on-the-job training	\$48,464	\$14.83	\$27.53
53-7033	Loading Machine Operators, Underground Mining	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
53-7041	Hoist and Winch Operators	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
53-7051	Industrial Truck and Tractor Operators	2,260	2,420	160	7.1%	20	40	60	Short-term on-the-job training	\$28,637	\$10.85	\$15.23

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53-7061	Cleaners of Vehicles and Equipment	940	1,000	60	6.4%	10	30	40	Short-term on-the-job training	\$20,320	\$6.42	\$11.45
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	7,080	7,520	440	6.2%	40	230	270	Short-term on-the-job training	\$24,095	\$8.63	\$13.06
53-7063	Machine Feeders and Offbearers	490	420	-70	-14.3%	<5	10	10	Short-term on-the-job training	\$23,454	\$8.47	\$12.68
53-7064	Packers and Packagers, Hand	3,170	3,560	390	12.3%	40	60	100	Short-term on-the-job training	\$22,389	\$7.21	\$12.54
53-7072	Pump Operators, Except Wellhead Pumpers	10	10	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
53-7081	Refuse and Recyclable Material Collectors	240	260	20	8.3%	<5	10	10	Short-term on-the-job training	\$32,458	\$11.82	\$17.50
53-7111	Shuttle Car Operators	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
53-7121	Tank Car, Truck, and Ship Loaders	10	10	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
53-7199	Material Moving Workers, All Other	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$27,133	\$9.65	\$14.74

Notes:

(1) **Employment** is a count of jobs rather than people, and includes all part- and full-time nonfarm jobs. Employment does not include self-employed, unpaid family, and railroad workers. Employment is rounded to the nearest ten, with employment less than five rounded to zero. Totals may not add due to rounding.

(2) **Replacements** are an estimate of the number of job openings expected because people have permanently left a given occupation. Permanent exits occur if someone dies, retires, or otherwise leaves the labor force. Permanent exits also include openings resulting from someone permanently changing occupations. For example, a person leaves their job as a cashier and becomes a truck driver. Openings resulting from people changing employers, but staying in the same occupation are not included.

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾

(3) **Total openings** are the sum of new jobs and replacements. Total openings are an indication of how many new people are needed to enter a given occupation.

(4) **Typical Education and Training Path** gives a general indication of the education or training typically needed in a given occupation. There may be other pathways into the occupation, as well as additional educational, training, or licensing requirements.

Short-Term On-the-Job Training: These occupations require no more than one month of on-the-job training and the training usually happens at the workplace.

Moderate-Term On-the-Job Training: Training for these occupations usually occurs at the workplace and lasts from one to twelve months.

Long-Term On-the-Job Training: These occupations require more than one year of on-the-job training, or combined work experience and classroom instruction.

Work Experience in Related Occupation: Occupations in this category require skills and experience gained in other jobs.

Postsecondary Vocational Training: These formal training programs last from a few weeks to more than a year, and are offered at vocational or technical schools.

Associate Degree: This degree requires two years of full-time academic work beyond high school.

Bachelor's Degree: This degree requires four or five years of full-time academic work at a college or university.

Master's Degree: This degree requires one to two years of full-time study beyond a bachelor's degree.

Doctoral Degree: This degree usually requires at least three years of full-time study beyond a bachelor's degree.

First Professional Degree: These degrees typically require at least two years of full-time study beyond a bachelor's degree.

Bachelor's or higher degree, plus work experience: These occupations require a bachelor's or higher degree, in addition to work experience in a related non-managerial position.

(5) **Average Annual Salary:** An occupation's average hourly wage is calculated by summing the wages of all employees in a given occupation and then dividing by the total number of employees in that occupation. In most cases, the annual average salary is equal to the average hourly wage multiplied by 2,080.

(6) **Entry Level Hourly Wage** is the average of the lower third of wages that are paid in a given occupation.

(7) **Experienced Hourly Wage** is the average of the upper two-thirds of wages that are paid in a given occupation.

(8) Depending upon the specific position and employer either an Associate or Bachelor's degree are most common.

* Data is suppressed to preserve the confidentiality of employers.

Projections information is derived using the November 2004 OES Survey, 2004 QCEW and 2004 CES (3/2005 Benchmark) data. Unpublished data from the US Bureau of Labor Statistics and US Census Bureau was also used. Wage information derived from the May 2005 Estimates Delivery System.

To the extent possible, the projections take into account anticipated changes in Wisconsin's economy from 2004 to 2014. It is important to note unanticipated events may affect the accuracy of these projections.

Projections Methodology

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